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I. BACKGROUND

- A. The United States of America ("United States"), on behalf of the Administrator of the United States Environmental Protection Agency ("EPA"), has concurrently filed a complaint in this matter pursuant to Sections 106 and 107 of the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), 42 U.S.C. §§ 9606, 9607.
- B. The United States in its complaint seeks, inter alia: payment of costs incurred by EPA and performance of certain response work by the defendant at the Waste Disposal, Inc. ("WDI") Superfund Site in Santa Fe Springs, California, consistent with the National Contingency Plan, 40 C.F.R. Part 300 (as amended) ("NCP").
- C. In accordance with the NCP and Section 121(f)(1)(F) of CERCLA, 42 U.S.C. § 9621(f)(1)(F), EPA notified the California Department of Toxic Substances Control ("DTSC") and the Hazardous Substance Account (collectively, "California") on April 10, 2001, of negotiations with potentially responsible parties regarding the implementation of the remedial design and remedial action for the Site, and EPA has provided California with an opportunity to participate in such negotiations and be a party to this Consent Decree.
- D. In accordance with Section 122(j)(1) of CERCLA, 42 U.S.C. § 9622(j)(1), EPA notified the National Oceanic and Atmospheric Administration, the Department of the Interior, and the natural resource trustees for the State of California on October 5 and 9, 2001, of negotiations with potentially responsible parties regarding the release of hazardous substances that may have resulted in injury to the natural resources under Federal and state trusteeship and encouraged the trustees to participate in the negotiation of this Consent Decree.

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- The defendant that has entered into this Consent Decree ("Settling E. 1 Defendant") does not admit any liability to the Plaintiff arising out of the transactions or occurrences alleged in the complaints, nor does it acknowledge that the release or threatened release of hazardous substances at or from the Site constitutes an imminent or substantial endangerment to the public health or welfare or the environment.
- F. Pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, EPA placed the Site on the National Priorities List, set forth at 40 C.F.R. Part 300, Appendix B, by publication in the Federal Register on July 22, 1987, 52 Fed. Reg. 27620.
- In response to a release or a substantial threat of a release of G. hazardous substances at or from the Site, EPA commenced on December 22, 1987, a Remedial Investigation and Feasibility Study ("RI/FS") for the Site pursuant to 40 C.F.R. § 300.430.
- EPA completed a Remedial Investigation ("RI") Report in November, Н. 1990, and several potentially responsible parties ("PRPs") at the Site completed a Supplemental Feasibility Study ("SFS") Report in May, 2001.
- Pursuant to Section 117 of CERCLA, 42 U.S.C. § 9617, EPA I. published notice of the completion of the SFS and of the proposed plan for remedial action on May 31, 2001, in a major local newspaper of general circulation. EPA provided an opportunity for written and oral comments from the public on the proposed plan for remedial action. A copy of the transcript of the public meeting is available to the public as part of the administrative record upon which the Regional Administrator based the selection of the response action.
- The decision by EPA on the remedial action to be implemented at the J. Site is embodied in a final Amended Record of Decision ("Amended ROD"), executed on June 21, 2002, on which DTSC has given its concurrence. The

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27 28 Amended ROD includes a responsiveness summary to the public comments. Notice of the final plan was published in accordance with Section 117(b) of CERCLA.

The Parties recognize, and the Court by entering this Consent Decree K. finds, that this Consent Decree has been negotiated by the Parties in good faith and implementation of this Consent Decree will expedite the cleanup of the Site and will avoid prolonged and complicated litigation between the Parties, and that this Consent Decree is fair, reasonable, and in the public interest.

NOW, THEREFORE, it is hereby Ordered, Adjudged, and Decreed:

II. JURISDICTION

This Court has jurisdiction over the subject matter of this action 1. pursuant to 28 U.S.C. §§ 1331 and 1345, and 42 U.S.C. §§ 9606, 9607, and 9613(b). This Court also has personal jurisdiction over the Settling Defendant. Solely for the purposes of this Consent Decree and the underlying complaint, Settling Defendant waives all objections and defenses that it may have to jurisdiction of the Court or to venue in this District. Settling Defendant shall not challenge the terms of this Consent Decree or this Court's jurisdiction to enter and enforce this Consent Decree.

III. PARTIES BOUND

This Consent Decree applies to and is binding upon the United States 2. and upon Settling Defendant and its heirs, successors and assigns. Any change in ownership or corporate status of Settling Defendant including, but not limited to, any transfer of assets or real or personal property, shall in no way alter such Settling Defendant's responsibilities under this Consent Decree, except as otherwise provided in Subparagraph 9.b.

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IV. DEFINITIONS

3. Unless otherwise expressly provided herein, terms used in this Consent Decree which are defined in CERCLA or in regulations promulgated under CERCLA shall have the meaning assigned to them in CERCLA or in such regulations. Whenever terms listed below are used in this Consent Decree or in the appendices attached hereto and incorporated hereunder, the following definitions shall apply:

"Amended Record of Decision" or "Amended ROD" shall mean the EPA Amended Record of Decision at the Site, signed on June 21, 2002, by the Regional Administrator, EPA Region IX, or his/her delegate, and all attachments thereto. The Amended ROD is attached as Appendix A.

"CERCLA" shall mean the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. §§ 9601, et seq.

"Consent Decree" shall mean this Decree and all appendices attached hereto (listed in Section XX). In the event of conflict between this Decree and any appendix, this Decree shall control.

"Day" shall mean a calendar day unless expressly stated to be a working day. "Working day" shall mean a day other than a Saturday, Sunday, or Federal holiday. In computing any period of time under this Consent Decree, where the last day would fall on a Saturday, Sunday, or Federal holiday, the period shall run until the close of business of the next working day.

"DTSC" shall mean the California Department of Toxic Substances Control and any successor departments or agencies.

"Effective Date" shall be the effective date of this Consent Decree as provided in Paragraph 63.

"EPA" shall mean the United States Environmental Protection Agency and any successor departments or agencies of the United States.

"Interest," shall mean interest at the rate specified for interest on investments of the EPA Hazardous Substance Superfund established by 26 U.S.C. § 9507, compounded annually on October 1 of each year, in accordance with 42 U.S.C. § 9607(a). The applicable rate of interest shall be the rate in effect at the time the interest accrues. The rate of interest is subject to change on October 1 of each year.

"National Contingency Plan" or "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, codified at 40 C.F.R. Part 300, and any amendments thereto.

"Paragraph" shall mean a portion of this Consent Decree identified by an arabic numeral or an upper case letter.

"Parties" shall mean the United States and the Settling Defendant.

"Past Response Costs" shall mean all costs, including, but not limited to, direct and indirect costs, that the United States paid at or in connection with the Site through December 31, 2004, plus Interest on all such costs which has accrued pursuant to 42 U.S.C. § 9607(a) through such date.

"Performance Standards" shall mean those cleanup standards, standards of control, response actions, and other substantive requirements and criteria or limitations set forth in the Amended ROD.

"Plaintiff" shall mean the United States.

"Property" shall mean that portion of the WDI Superfund Site owned by Settling Defendant and described more particularly in Appendix D.

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"Remedial Action" shall mean the actions taken to implement the remedy for the Site pursuant to the Amended ROD.

"Response Actions" shall mean any and all removal and remedial actions and all enforcement activities related thereto.

"Response Costs" shall mean all costs, including, but not limited to, direct or indirect costs, that the United States has paid or will pay in connection with the Site, that are not inconsistent with the NCP, and all necessary costs that any other person has paid or will pay in connection with the Site that are consistent with the NCP.

"RCRA" shall mean the Solid Waste Disposal Act, as amended, 42 U.S.C. §§ 6901 et seq. (also known as the Resource Conservation and Recovery Act).

"Section" shall mean a portion of this Consent Decree identified by a Roman numeral.

"Settling Defendant" shall mean the Raymond and Donnis Holbrook Trust.

"Site" shall mean the WDI Superfund Site, encompassing approximately 43 acres, located at Los Nietos Road at Greenleaf Avenue in Santa Fe Springs, Los Angeles County, California, and depicted generally on the map attached as Appendix B.

"State" shall mean the State of California.

"United States" shall mean the United States of America.

"Waste Material" shall mean (1) any "hazardous substance" under Section 101(14) of CERCLA, 42 U.S.C. § 9601(14); (2) any pollutant or contaminant under Section 101(33), 42 U.S.C. § 9601(33); (3) any "solid waste" under Section 1004(27) of RCRA, 42 U.S.C. § 6903(27); and (4) any "hazardous material" under

California Health and Safety Code §§ 25316 and 25317.

"WDIG" shall mean the Waste Disposal, Inc. Group.

"WDI Special Account" shall mean the special account established at the Site by EPA pursuant to Section 122(b)(3) of CERCLA, 42 U.S.C. §9622(b)(3), within the EPA Hazardous Substance Superfund.

"Work" shall mean all activities Settling Defendant is required to perform under this Consent Decree, except those required by Section XVII (Retention of Records).

V. GENERAL PROVISIONS

4. Objectives of the Parties. The objectives of the Parties in entering into this Consent Decree are to protect public health or welfare or the environment at the Site by the implementation of and compliance with access agreements and institutional controls at the Site by the Settling Defendant, and to resolve the claims of Plaintiff against Settling Defendant as provided in this Consent Decree.

5. <u>Commitments by Settling Defendant.</u>

a. Settling Defendant shall perform the Work in accordance with this Consent Decree and the Amended ROD, including, but not limited to, granting access rights and implementing institutional controls in the form of an Environmental Restriction Covenant on the Property at the Site, owned by Settling Defendant, as required herein. Settling Defendant shall ensure compliance with the Environmental Restriction Covenant by any tenants or other persons on the Property during any time that Settling Defendant owns or controls the Property. Settling Defendant shall also reimburse the United States for Past Response Costs as provided in this Consent Decree.

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- Settling Defendant shall make best efforts to cooperate with b. any persons implementing all or any portion of the Remedial Action pursuant to the Amended ROD under EPA's oversight. Best efforts shall include, but not be limited to, actions to facilitate any relocations on or from the Property that may be required by EPA to implement the Remedial Action.
- Certification of Settling Defendants. By signing this Consent Decree, 6. Settling Defendant certifies that, to the best of its knowledge and belief, it has:
- conducted a thorough, comprehensive, good faith search for a. documents, and has fully and accurately disclosed to EPA, all information currently in its possession, or in the possession of its officers, directors, employees, contractors, agents, trustees, or beneficiaries, which relates in any way to the ownership, operation, or control of the Site, or to the ownership, possession, generation, treatment, transportation, storage, or disposal of a hazardous substance, pollutant, or contaminant at or in connection with the Site, except to the extent that Settling Defendant has asserted that certain documents or information are privileged under the attorney client privilege. If Settling Defendant has asserted such a privilege, Settling Defendant certifies that it has provided Plaintiff with the following: (1) the title of the document, record, or information; (2) the date of the document, record, or information; (3) the name and title of the author of the document, record, or information; (4) the name and title of each addressee and recipient; (5) a description of the contents of the document, record, or information; and (6) the privilege asserted by Settling Defendant;
- not altered, mutilated, discarded, destroyed or otherwise b. disposed of any records, documents, or other information relating to its potential liability regarding the Site after notification of potential liability or the filing of a suit against it regarding the Site; and

c. fully complied with any and all EPA requests for information regarding the Site pursuant to Section 104(e) of CERCLA, 42 U.S.C. § 9604(e).

- 7. Compliance With Applicable Law. All activities undertaken by Settling Defendant pursuant to this Consent Decree shall be performed in accordance with the requirements of all applicable federal and state laws and regulations. Settling Defendant must also comply with all applicable or relevant and appropriate requirements of all federal and state environmental laws as set forth in the Amended ROD. The activities conducted pursuant to this Consent Decree, if approved by EPA, shall be considered to be consistent with the NCP.
 - 8. Permits.
- a. This Consent Decree is not, and shall not be construed to be, a permit issued pursuant to any federal or state statute or regulation.
 - 9. Notice to Successors-in-Title.
- a. At least 30 days prior to the conveyance of any interest in property located within the Site including, but not limited to, fee interests, leasehold interests, and mortgage interests, the Settling Defendant conveying the interest shall give the grantee written notice of (i) this Consent Decree and (ii) the Environmental Restriction Covenant, attached as Appendix C. At least 30 days prior to such conveyance, Settling Defendant shall also give written notice to EPA of the proposed conveyance, including the name and address of the grantee, and the date on which notice of the Consent Decree and Environmental Restriction Covenant, was given to the grantee.
- b. In the event of any such conveyance, the Settling Defendant's obligations under this Consent Decree, including, but not limited to, its obligation to abide by the land/water use restrictions described in Paragraph 11.a, shall continue to be met by the Settling Defendant, except for those obligations

described in Paragraphs 10, 11.a(13), 11.a(21), 11.a(22), 11.a(23), 11.a(24), and 18.c.

VI. ACCESS AND INSTITUTIONAL CONTROLS

10. Settling Defendant shall:

- a. commencing on the date of lodging of this Consent Decree, provide the United States, its representatives, including EPA and its contractors, and any PRPs conducting Remedial Action at the Site, including their agents and contractors, with access at all reasonable times to the Property for the purpose of conducting any response activity related to the Site including, but not limited to, the following activities:
 - (1) Monitoring of investigation, removal, remedial or other response actions at the Site;
 - (2) Verifying any data or information submitted to the United States or DTSC;
 - (3) Conducting investigations relating to contamination at or near the Site;
 - (4) Obtaining samples;
 - (5) Assessing the need for, planning, or implementing additional response actions at or near the Site;
- (6) Inspecting and copying records, operating logs, contracts, or other documents maintained or generated by Settling Defendant or its agents, consistent with Section XV (Access to Information);
- (7) Assessing Settling Defendant's compliance with this Consent Decree;

- (8) Determining whether the Site or other property is being used in a manner that is prohibited or restricted, or that may need to be prohibited or restricted, by or pursuant to this Consent Decree.
- (9) Installing, monitoring, and maintaining liquid, groundwater, soil gas and other wells or probes; and
- (10) Installing, monitoring, and operating any monitoring and extraction system, including liquids and gas extraction systems.

11. Land Use Restrictions.

- a. Settling Defendant shall, commencing on the date of lodging of this Consent Decree, refrain from using the Site and Property in any manner that would interfere with or adversely affect the implementation, integrity, or protectiveness of the remedial measures implemented pursuant to the Amended ROD. Such land use restrictions include, but are not limited to:
 - (1) Placement of warning signs or other posted information shall be allowed and, once posted, no removal or interference with such signs or information shall be permitted.
 - (2) Placement of Site access controls, such as gates or fencing, shall be allowed and shall not be damaged or circumvented.
 - (3) The Site or such other property shall not be used in any manner that may interfere with or affect the integrity of the remedial cap or other components of the remedy, as constructed pursuant to the Amended ROD.
 - (4) Construction not approved by EPA that impacts any of the remedial capping or other remedy components shall not occur.

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- (5) No interferences with or alterations to the grading, vegetation and surface water and drainage controls shall be made.
- (6) Portions of the Site or Property underlain by Waste Materials or in soil gas noncompliance areas shall not be regraded.
- (7) Areas of asphalt or concrete pavement shall not be removed or improved.
- (8) No penetrations through or interferences (including, but not limited to, utility trench excavations, excavations for fence posts, excavations for planting trees or large bushes, foundation excavations, and foundation piles) with the remedial cap or any other areas with remedial controls shall be made.
- (9) Deep-rooting plants (plants whose root systems will penetrate more than two feet below ground surface) shall not be planted.
- (10) Settling Defendant or any other owner or user of the Property shall obtain approval from EPA for settings of irrigation controls in areas underlain by Waste Materials. Such settings shall not be changed without the prior written approval of EPA in accordance with Paragraph 11.b.
- (11) Drainage channels and pipes shall not be blocked, rerouted or otherwise interfered with.
- (12) No new openings shall be made in building floor slabs in buildings located over Waste Materials or over soil gas noncompliance areas.
- (13) Integrity of existing and future foundations shall be maintained in areas underlain by Waste Materials and in soil gas

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noncompliance areas. All cracks or damage in such foundations shall be reported to EPA and shall be repaired by the Settling Defendant.

- (14) Indoor gas controls shall not be circumvented.
- (15) Indoor gas sensors or alarms shall not be turned off or nterfered with.
- (16) Soil gas control systems shall not be turned off or interfered with.
- (17) Monitoring points, including but not limited to groundwater monitoring wells, soil gas probes, reservoir leachate collection wells, soil gas vents, and survey monuments, shall not be blocked or otherwise obstructed.
- (18) Monitoring wells shall not be opened; nothing shall be placed into the monitoring wells.
- (19) Liquids recovery systems, liquids treatment systems, and treated liquids storage facilities shall not be turned off or interfered with.
- (20) Groundwater supply or monitoring wells shall not be constructed.
- (21) Owners of the Site or such other property shall disclose all land/water use restrictions to all tenants on the property.
- (22) Settling Defendant shall inform EPA of the identities of all tenants on the Property.
- (23) During construction, excavation, or grading of any type on the Property, Settling Defendant shall take measures to ensure that there is no offsite migration of dust, odors or organic vapors. During such

activities, Settling Defendant shall take appropriate measures to protect the health and welfare of onsite personnel and workers and to prevent offsite impacts.

- (24) Settling Defendant must obtain prior written approval for all building or site modifications on the Property from EPA in accordance with Paragraph 11.b.
- (25) Settling Defendant shall not excavate Waste Materials on the Site.
- (26) No new construction shall occur on the Site without the prior written approval of EPA in accordance with Paragraph 11.b and the following requirements:
 - (a) New construction shall be supported by subsurface explorations and analytical laboratory data to characterize the construction area for the possible existence of Waste Materials.
 - (b) If Waste Materials are discovered in the construction area, they shall be remediated or buildings and structures must be appropriately designed to protect occupants.
 - (c) Appropriate worker and public health and safety precautions, including but not limited to dust control, safety plans, and other forms of worker protection, must be taken prior to approval of construction.
- (27) Boreholes, foundation piles, or other subsurface penetrations into the reservoir or any other area of the site which could create conduits allowing Waste Materials to migrate to groundwater shall not be made.

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(28) Construction workers shall be provided with appropriate personal protective equipment while they are working at the site.

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- (29) Pesticides or herbicides shall not be applied to the capped areas of the Site or to areas surrounding monitoring points, except as approved by EPA.
- (30) Use of any septic tanks on the Property shall be discontinued and such tanks shall be decommissioned in accordance with local regulations.
- The Site or such other property shall not be used or redeveloped for residential use; use as a hospital, school for people aged 21 and under, or day care center; or other similar uses by sensitive receptors.
- Any person seeking an exception to the land use restrictions in b. Paragraph 10.a shall obtain the prior written approval of EPA. Any person seeking an exception shall submit a request in writing to EPA, with all necessary supporting documentation (such documentation may include appropriate design documents, work plans, and/or calculations). EPA shall respond to such request within a reasonable time, by: 1) providing written approval for the exception; 2) requesting further information in support of the request; 3) providing written approval of the exception with modification; or 4) denying the request. The decision of EPA shall be final and shall not be subject to the dispute resolution procedures of this Consent Decree, except as provided in Paragraph 29, or to judicial review.

Environmental Restriction Covenant: 12.

Settling Defendant shall, within 30 days of entry of this a. Consent Decree, submit to EPA for review and approval, with respect to the Property, a current title insurance commitment or some other evidence of title

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reasonably acceptable to EPA, which shows title to the Property to be held by Settling Defendant and to be free and clear of all prior liens and encumbrances, other than the liens held by EPA on the Property pursuant to Section 107(1) of CERCLA, 42 U.S.C. § 9607(1) (except when those liens or encumbrances are approved by EPA, or when, despite best efforts, Settling Defendant is unable to obtain release or subordination of such prior liens or encumbrances).

- b. Within 15 days of EPA's approval and acceptance of the title evidence, Settling Defendant shall update the title search and, if it is determined that nothing has occurred since the effective date of the commitment to affect the title adversely, record the Environmental Restriction Covenant attached as Appendix C with the Recorder's Office of Los Angeles County, if it has not already been recorded. Within 30 days of recording the Environmental Restriction Covenant, Settling Defendant shall provide EPA with a final title insurance policy, or other final evidence of title acceptable to EPA, and a certified copy of the original recorded Environmental Restriction Covenant showing the clerk's recording stamps.
- If, after review of the final title insurance policy, or other final c. evidence of title, and the certified copy of the original recorded Environmental Restriction Covenant, EPA determines that any portion of the Work has not been completed in accordance with this Consent Decree, EPA will notify Settling Defendant in writing of the activities that must be undertaken by Settling Defendant pursuant to this Consent Decree to complete the Work, provided, however, that EPA may only require Settling Defendant to perform such activities pursuant to this Paragraph to the extent that such activities are consistent with the scope of the remedy selected in the Amended ROD. EPA will set forth in the notice a schedule for performance of such activities consistent with the Consent Decree. Settling Defendant shall perform all activities described in the notice in accordance with the specifications and schedules established therein, subject to

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their right to invoke the dispute resolution procedures set forth in Section XI (Dispute Resolution).

- If EPA determines that institutional controls in the form of state or 13. local laws, regulations, ordinances or other governmental controls are needed to implement the remedy selected in the Amended ROD, ensure the integrity and protectiveness thereof, or ensure non-interference therewith, Settling Defendant shall cooperate with EPA's efforts to secure such governmental controls.
- 14. Notwithstanding any provision of this Consent Decree, the United States retains all of its information gathering, inspection, and access authorities and rights, as well as all of its rights to require land use restrictions, including enforcement authorities related thereto, under CERCLA, RCRA and any other applicable statute or regulations.

VII. REMEDY REVIEW

- 15. Periodic Review. Settling Defendant shall cooperate with the conduct of any studies and investigations as requested by EPA, in order to permit EPA to conduct reviews of whether the Remedial Action is protective of human health and the environment at least every five years as required by Section 121(c) of CERCLA and any applicable regulations.
- EPA Selection of Further Response Actions. If EPA determines, at 16. any time, that the response actions undertaken pursuant to the Amended ROD are not protective of human health and the environment, EPA may select further response actions for the Site in accordance with the requirements of CERCLA and the NCP.
- Opportunity To Comment. Settling Defendant and, if required by 17. Sections 113(k)(2) or 117 of CERCLA, the public, will be provided with an opportunity to comment on any further response actions proposed by EPA as a

result of the review conducted pursuant to Section 121(c) of CERCLA and to submit written comments for the record during the comment period.

18. Modification of the Land Use Restrictions.

- a. If EPA determines that modifications or additions to the land use restrictions are necessary to carry out and maintain the effectiveness of the remedy set forth in the Amended ROD, EPA may require that such modifications or additions be incorporated in the land use restrictions, provided, however, that a modification or addition may only be required pursuant to this Paragraph to the extent that it is consistent with the scope of the remedy selected in the Amended ROD.
- b. If Settling Defendant objects to any modification or addition determined by EPA to be necessary pursuant to this Paragraph, Settling Defendant may seek dispute resolution pursuant to Section XI (Dispute Resolution), Paragraph 29 (record review). The land use restrictions shall be modified in accordance with final resolution of the dispute.
- c. Settling Defendant shall implement any land use restrictions required by any modifications or additions incorporated in the land use restrictions in accordance with this Paragraph.
- d. Nothing in this Paragraph shall be construed to limit EPA's authority to require performance of further response actions as otherwise provided in this Consent Decree.

VIII. REPORTING REQUIREMENTS

19. All reports and other documents submitted by Settling Defendant to EPA which purport to document Settling Defendant's compliance with the terms of this Consent Decree shall be signed by an authorized representative of the Settling

Defendant.

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IX. PAYMENTS FOR RESPONSE COSTS

Payments for Past Response Costs.

- Within sixty (60) days of the Effective Date, Settling a. Defendant shall pay to EPA \$140,000 in partial payment for EPA's Past Response Costs.
- Within 24 months of the Effective Date, Settling Defendant b. shall pay to EPA another \$140,000, plus Interest accruing on that amount since the Effective Date, in payment for EPA's Past Response Costs.
- Payments under Subparagraphs 20.a and 20.b shall be made by c. FedWire Electronic Funds Transfer ("EFT") to the U.S. Department of Justice account in accordance with current EFT procedures, referencing USAO File Number 2005V02459, EPA Site/Spill ID Number 09-C1, and DOJ Case Number 90-11-2-1000. Payment shall be made in accordance with instructions provided to the Settling Defendant by the Financial Litigation Unit of the United States Attorney's Office for the Central District of California following lodging of the Consent Decree. Any payments received by the Department of Justice after 4:00 p.m. (Eastern Time) will be credited on the next business day.
- At the time of payment, Settling Defendant shall send notice d. that payment has been made to the United States, to EPA, and to the Regional Financial Management Officer, in accordance with Section XVIII (Notices and Submissions).
- The total amount to be paid by Setting Defendant pursuant to e. Subparagraphs 20.a and 20.b shall be deposited in the WDI Special Account within the EPA Hazardous Substance Superfund to be retained and used to

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conduct or finance response actions at or in connection with the Site, or to be transferred by EPA to the EPA Hazardous Substance Superfund.

Within sixty (60) days of the Effective Date, EPA shall cause the 21. liens recorded on the Property by EPA pursuant to CERCLA Section 107(1) to be released.

X. FORCE MAJEURE

- "Force majeure," for purposes of this Consent Decree, is defined as 22. any event arising from causes beyond the control of the Settling Defendant, or of any entity controlled by Settling Defendant, that delays or prevents the performance of any obligation under this Consent Decree despite Settling Defendant's best efforts to fulfill the obligation. The requirement that the Settling Defendant exercise "best efforts to fulfill the obligation" includes using best efforts to anticipate any potential force majeure event and best efforts to address the effects of any potential force majeure event (1) as it is occurring and (2) following the potential force majeure event, such that the delay is minimized to the greatest extent possible. "Force Majeure" does not include financial inability to complete the Work.
- 23. If any event occurs or has occurred that may delay the performance of any obligation under this Consent Decree, whether or not caused by a force majeure event, the Settling Defendant shall notify orally EPA's Project Coordinator or, in his or her absence, EPA's Alternate Project Coordinator or, in the event both of EPA's designated representatives are unavailable, the Superfund Division Director, EPA Region IX, within five (5) days of when Settling Defendant first knew that the event might cause a delay. Within five (5) days thereafter, Settling Defendant shall provide in writing to EPA an explanation and description of the reasons for the delay; the anticipated duration of the delay; all actions taken or to be taken to prevent or minimize the delay; a schedule for

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implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay; the Settling Defendant's rationale for attributing such delay to a 2 force majeure event if it intends to assert such a claim; and a statement as to 3 whether, in the opinion of the Settling Defendant, such event may cause or 4 contribute to an endangerment to public health, welfare or the environment. The 5 Settling Defendant shall include with any notice all available documentation 6 supporting its claim that the delay was attributable to a force majeure. Failure to 7 comply with the above requirements shall preclude Settling Defendant from 8 asserting any claim of force majeure for that event for the period of time of such 9 failure to comply, and for any additional delay caused by such failure. Settling 10 Defendant shall be deemed to know of any circumstance of which Settling 11 Defendant, or any entity controlled by Settling Defendant knew or should have 12 13 known. 14 24. If EPA agrees that the delay or anticipated delay is attributable to a 15 16

- force majeure event, the time for performance of the obligations under this Consent Decree that are affected by the force majeure event will be extended by EPA for such time as is necessary to complete those obligations. An extension of the time for performance of the obligations affected by the force majeure event shall not, of itself, extend the time for performance of any other obligation. If EPA does not agree that the delay or anticipated delay has been or will be caused by a force majeure event, EPA will notify the Settling Defendant in writing of its decision. If EPA agrees that the delay is attributable to a force majeure event, EPA will notify the Settling Defendant in writing of the length of the extension, if any, for performance of the obligations affected by the force majeure event.
- If the Settling Defendant elects to invoke the dispute resolution 25. procedures set forth in Section XI (Dispute Resolution), it shall do so no later than 15 days after receipt of EPA's notice. In any such proceeding, Settling Defendant shall have the burden of demonstrating by a preponderance of the evidence that

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the delay or anticipated delay has been or will be caused by a force majeure event, that the duration of the delay or the extension sought was or will be warranted under the circumstances, that best efforts were exercised to avoid and mitigate the effects of the delay, and that Settling Defendant complied with the requirements of Paragraphs 22 and 23, above. If Settling Defendant carries this burden, the delay at issue shall be deemed not to be a violation by Settling Defendant of the affected obligation of this Consent Decree identified to EPA and the Court.

XI. DISPUTE RESOLUTION

- 26. Unless otherwise expressly provided for in this Consent Decree, the dispute resolution procedures of this Section shall be the exclusive mechanism to resolve disputes arising under or with respect to this Consent Decree. However, the procedures set forth in this Section shall not apply to actions by the United States to enforce obligations of the Settling Defendant that have not been disputed in accordance with this Section.
- 27. Any dispute which arises under or with respect to this Consent Decree shall in the first instance be the subject of informal negotiations between the parties to the dispute. The period for informal negotiations shall not exceed 20 days from the time the dispute arises, unless it is modified by written agreement of the parties to the dispute. The dispute shall be considered to have arisen when one party sends the other parties a written Notice of Dispute.

28. Statements of Position.

In the event that the parties cannot resolve a dispute by a. informal negotiations under the preceding Paragraph, then the position advanced by EPA shall be considered binding unless, within 15 days after the conclusion of the informal negotiation period, Settling Defendant invokes the formal dispute resolution procedures of this Section by serving on the United States a written

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Statement of Position on the matter in dispute, including, but not limited to, any factual data, analysis or opinion supporting that position and any supporting documentation relied upon by the Settling Defendant. The Statement of Position shall specify the Settling Defendant's position as to whether formal dispute resolution should proceed under Paragraph 29 or Paragraph 30.

- Within 15 days after receipt of Settling Defendant's Statement b. of Position, EPA will serve on Settling Defendant its Statement of Position, including, but not limited to, any factual data, analysis, or opinion supporting that position and all supporting documentation relied upon by EPA. EPA's Statement of Position shall include a statement as to whether formal dispute resolution should proceed under Paragraph 29 or 30. Within 10 days after receipt of EPA's Statement of Position, Settling Defendant may submit a Reply.
- If there is disagreement between EPA and the Settling c. Defendant as to whether dispute resolution should proceed under Paragraph 29 or 30, the parties to the dispute shall follow the procedures set forth in the paragraph determined by EPA to be applicable. However, if the Settling Defendant ultimately appeals to the Court to resolve the dispute, the Court shall determine which paragraph is applicable in accordance with the standards of applicability set forth in Paragraphs 29 and 30.
- Formal dispute resolution for disputes pertaining to the selection or 29. adequacy of any response action and all other disputes that are accorded review on the administrative record under applicable principles of administrative law shall be conducted pursuant to the procedures set forth in this Paragraph. For purposes of this Paragraph, the adequacy of any response action includes, without limitation: the adequacy of the performance of response actions taken pursuant to this Consent Decree. Nothing in this Consent Decree shall be construed to allow any dispute by Settling Defendant regarding the validity of the Amended ROD's

a. An administrative record of the dispute shall be maintained by EPA and shall contain all statements of position, including supporting documentation, submitted pursuant to this Section. Where appropriate, EPA may allow submission of supplemental statements of position by the parties to the

dispute.

provisions.

- b. The Superfund Division Director, EPA Region IX, will issue a final administrative decision resolving the dispute based on the administrative record described in Paragraph 29.a. This decision shall be binding upon the Settling Defendant, subject only to the right to seek judicial review pursuant to Paragraphs 29.c and d.
- c. Any administrative decision made by EPA pursuant to Paragraph 29.b. shall be reviewable by this Court, provided that a motion for judicial review of the decision is filed by the Settling Defendant with the Court and served on all Parties within 10 days of receipt of EPA's decision. The motion shall include a description of the matter in dispute, the efforts made by the parties to resolve it, the relief requested, and the schedule, if any, within which the dispute must be resolved to ensure orderly implementation of this Consent Decree. The United States may file a response to Settling Defendant's motion.
- d. In proceedings on any dispute governed by this Paragraph, Settling Defendant shall have the burden of demonstrating that the decision of the Superfund Division Director is arbitrary and capricious or otherwise not in accordance with law. Judicial review of EPA's decision shall be on the administrative record compiled pursuant to Paragraph 29.a.
- 30. Formal dispute resolution for disputes that neither pertain to the selection or adequacy of any response action nor are otherwise accorded review on

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27 28 the administrative record under applicable principles of administrative law, shall be governed by this Paragraph.

- Following receipt of Settling Defendant's Statement of Position a. submitted pursuant to Paragraph 28, the Superfund Division Director, EPA Region IX, will issue a final decision resolving the dispute. The Superfund Division Director's decision shall be binding on the Settling Defendant unless, within 10 days of receipt of the decision, the Settling Defendant files with the Court and serve on the parties a motion for judicial review of the decision setting forth the matter in dispute, the efforts made by the parties to resolve it, the relief requested, and the schedule, if any, within which the dispute must be resolved to ensure orderly implementation of the Consent Decree. The United States may file a response to Settling Defendant's motion.
- Judicial review of any dispute governed by this Paragraph shall b. be governed by applicable principles of law.
- 31. The invocation of formal dispute resolution procedures under this Section shall not extend, postpone or affect in any way any obligation of the Settling Defendant under this Consent Decree, not directly in dispute, unless EPA or the Court agrees otherwise. Stipulated penalties with respect to the disputed matter shall continue to accrue but payment shall be stayed pending resolution of the dispute as provided in Paragraph 38. Notwithstanding the stay of payment, stipulated penalties shall accrue from the first day of noncompliance with any applicable provision of this Consent Decree. In the event that the Settling Defendant does not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in Section XII (Stipulated Penalties).

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XII. STIPULATED PENALTIES

Settling Defendant shall be liable for stipulated penalties in the 32. amounts set forth in Paragraph 33 to the United States for failure to comply with the requirements of this Consent Decree specified below, unless excused under Section X (Force Majeure). "Compliance" by Settling Defendant shall include completion of the activities under this Consent Decree identified below in accordance with all applicable requirements of law and this Consent Decree and within the specified time schedules established by and approved under this Consent Decree.

Stipulated Penalty Amounts. 33.

The following stipulated penalties shall accrue per violation per a. day for any noncompliance identified in Subparagraph 33.b:

Penalty Per Violation Per Day Period of Noncompliance

1st through 14th day \$200 15th through 30th day \$400 \$1,000 31st day and beyond

Compliance Milestones. b.

- Failure to submit evidence of title to EPA as required by **(1)** Paragraph 12.a.
 - Violation of land use restrictions listed in Paragraph (2)
 - Violation of access provisions of Paragraph 10.a. (3)
 - Failure to make payment of Past Response Costs as (4)

required by Paragraph 20.

- 34. All penalties shall begin to accrue on the day after the complete performance is due or the day a violation occurs, and shall continue to accrue through the final day of the correction of the noncompliance or completion of the activity. However, stipulated penalties shall not accrue: (1) with respect to a decision by the Superfund Division Director, EPA Region IX, under Paragraph 29.b or 30.a of Section XI (Dispute Resolution), during the period, if any, beginning on the 21st day after the date that Settling Defendant's reply to EPA's Statement of Position is received until the date that the Director issues a final decision regarding such dispute; or (2) with respect to judicial review by this Court of any dispute under Section XI (Dispute Resolution), during the period, if any, beginning on the 31st day after the Court's receipt of the final submission regarding the dispute until the date that the Court issues a final decision regarding such dispute. Nothing herein shall prevent the simultaneous accrual of separate penalties for separate violations of this Consent Decree.
- 35. Following EPA's determination that Settling Defendant has failed to comply with a requirement of this Consent Decree, EPA may give Settling Defendant written notification of the same and describe the noncompliance. EPA may send the Settling Defendant a written demand for the payment of the penalties. However, penalties shall accrue as provided in the preceding Paragraph regardless of whether EPA has notified the Settling Defendant of a violation.
- 36. Settling Defendant shall pay all penalties accruing under this Section to the United States within 30 days of the Settling Defendant's receipt from EPA of a demand for payment of the penalties, unless Settling Defendant invokes the Dispute Resolution procedures under Section XI (Dispute Resolution). All payments to the United States under this Section shall be paid by certified or cashier's check(s) made payable to "EPA Hazardous Substances Superfund," shall

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27 28 be mailed to Mellon BankEPA - Region 9, Attn: Superfund Accounting, P.O. Box 371099M, Pittsburgh, PA 15251, shall indicate that the payment is for stipulated penalties, and shall reference the EPA Region and Site/Spill ID #09-C1, the DOJ Case Number 90-11-2-1000/2, and the name and address of the party making payment. Copies of checks paid pursuant to this Section, and any accompanying transmittal letter(s), shall be sent to the United States as provided in Section XVIII (Notices and Submissions), and to David Wood, Chief, Cost Accounting, U.S. EPA, Region IX, 75 Hawthorne St., San Francisco, CA 94105.

- 37. The payment of penalties shall not alter in any way Settling Defendant's obligation to complete the performance of the Work required under this Consent Decree.
- 38. Penalties shall continue to accrue as provided in Paragraph 33 during any dispute resolution period, but need not be paid until the following:
- If the dispute is resolved by agreement or by a decision of EPA a. that is not appealed to this Court, accrued penalties determined to be owing shall be paid to EPA within 15 days of the agreement or the receipt of EPA's decision or order;
- If the dispute is appealed to this Court and the United States b. prevails in whole or in part, Settling Defendant shall pay all accrued penalties determined by the Court to be owed to EPA within 60 days of receipt of the Court's decision or order, except as provided in Subparagraph c. below;
- If the District Court's decision is appealed by any Party, c. Settling Defendant shall pay all accrued penalties determined by the District Court to be owing to the United States into an interest-bearing escrow account within 60 days of receipt of the Court's decision or order. Penalties shall be paid into this account as they continue to accrue, at least every 60 days. Within 15 days of

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receipt of the final appellate court decision, the escrow agent shall pay the balance of the account to EPA or to Settling Defendant to the extent that they prevail.

- If Settling Defendant fails to pay stipulated penalties when due, the 39. United States may institute proceedings to collect the penalties, as well as interest. Settling Defendant shall pay Interest on the unpaid balance, which shall begin to accrue on the date of demand made pursuant to Paragraph 35.
- Nothing in this Consent Decree shall be construed as prohibiting, 40. altering, or in any way limiting the ability of the United States to seek any other remedies or sanctions available by virtue of Settling Defendant's violation of this Decree or of the statutes and regulations upon which it is based, including, but not limited to, penalties pursuant to Section 122(1) of CERCLA, provided, however, that the United States shall not seek civil penalties pursuant to Section 122(1) of CERCLA for any violation for which a stipulated penalty is provided herein, except in the case of a willful violation of the Consent Decree.
- Notwithstanding any other provision of this Section, the United States 41. may, in its unreviewable discretion, waive any portion of stipulated penalties that have accrued pursuant to this Consent Decree.

XIII. COVENANTS NOT TO SUE BY PLAINTIFF

United States' Covenant Not to Sue. In consideration of the actions 42. that will be performed and the payment that will be made by the Settling Defendant under the terms of the Consent Decree, and except as specifically provided in Paragraphs 43, 44, and 46 of this Section, the United States covenants not to sue or to take administrative action against Settling Defendant pursuant to Sections 106 and 107(a) of CERCLA relating to the Site. Except with respect to future liability, these covenants not to sue shall take effect upon the receipt by EPA of the payments required by Paragraph 20 of Section IX (Payments for

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Response Costs). With respect to future liability, these covenants not to sue shall take effect upon certification of the completion of the Remedial Action by EPA, which shall occur when Remedial Action for the Site has been completed. These covenants not to sue are conditioned upon the satisfactory performance by Settling Defendant of its obligations under this Consent Decree. These covenants not to sue extend only to the Settling Defendant and do not extend to any other person.

- Plaintiff's Pre-certification Reservations. Notwithstanding any other 43. provision of this Consent Decree, the United States reserves, and this Consent Decree is without prejudice to, the right to institute proceedings in this action or in a new action, or to issue an administrative order seeking to compel Settling Defendant
 - to perform further response actions relating to the Site, or a.
- to reimburse the United States for additional costs of response b. if, prior to certification of completion of the Remedial Action:
 - (1) conditions at the Site, previously unknown to EPA, are discovered, or
 - information, previously unknown to EPA, is received, in (2) whole or in part,
- and EPA determines that these previously unknown conditions or information together with any other relevant information indicates that the Remedial Action is not protective of human health or the environment.
- 44. Plaintiff's Post-certification Reservations. Notwithstanding any other provision of this Consent Decree, the United States reserves, and this Consent Decree is without prejudice to, the right to institute proceedings in this action or in a new action, or to issue an administrative order seeking to compel Settling

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to perform further response actions relating to the Site, or a.

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- to reimburse the United States for additional costs of response b. if, subsequent to certification of completion of the Remedial Action:
 - (1) conditions at the Site, previously unknown to EPA, are discovered, or
 - information, previously unknown to EPA, is received, in (2) whole or in part,

and EPA determines that these previously unknown conditions or this information together with other relevant information indicate that the Remedial Action is not protective of human health or the environment.

- For purposes of Paragraph 43, the information and the conditions 45. known to EPA shall include only that information and those conditions known to EPA as of the date the Amended ROD was signed and set forth in the Amended Record of Decision for the Site and the administrative record supporting the Amended Record of Decision. For purposes of Paragraph 44, the information and the conditions known to EPA shall include only that information and those conditions known to EPA as of the date of certification of completion of the Remedial Action and set forth in the Amended Record of Decision, the administrative record supporting the Amended Record of Decision, the post-Amended ROD administrative record, or in any information received by EPA pursuant to the requirements of this Consent Decree prior to certification of completion of the Remedial Action.
- United States' General reservations of rights. The United States 46. reserves, and this Consent Decree is without prejudice to, all rights against

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Settling Defendant with respect to all matters not expressly included within the United States' covenants not to sue. Notwithstanding any other provision of this Consent Decree, the United States reserves all rights against Settling Defendant with respect to:

- claims based on a failure by Settling Defendant to meet a a. requirement of this Consent Decree;
- liability arising from the past, present, or future disposal, b. release, or threat of release of Waste Material outside of the Site;
- liability for damages for injury to, destruction of, or loss of c. natural resources, and for the costs of any natural resource damage assessments;
 - criminal liability; d.
- liability for violations of federal or state law which occur e. during or after implementation of the Work; and
- f. liability, prior to Certification of Completion of the Remedial Action, for additional response actions that EPA determines are necessary to achieve Performance Standards, but that cannot be required pursuant to Paragraph 18 (Modification of the Land Use Restrictions).
- Notwithstanding any other provision of this Consent Decree, the 47. United States retains all authority and reserves all rights to take any and all response actions authorized by law.

XIV. COVENANTS BY SETTLING DEFENDANT

Covenant Not to Sue. Subject to the reservations in Paragraph 49, 48. Settling Defendant hereby covenants not to sue and agrees not to assert any claims or causes of action against the United States with respect to the Site or this

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Consent Decree, including, but not limited to:

- any direct or indirect claim for reimbursement from the a. Hazardous Substance Superfund (established pursuant to the Internal Revenue Code, 26 U.S.C. § 9507) through CERCLA Sections 106(b)(2), 107, 111, 112, 113 or any other provision of law;
- any claims against the United States, including any department, b. agency or instrumentality of the United States, under CERCLA Sections 107 or 113 related to the Site; or
- any claims arising out of response actions at or in connection c. with the Site, including any claim under the United States Constitution, the Tucker Act, 28 U.S.C. § 1491, the Equal Access to Justice Act, 28 U.S.C. § 2412, as amended, or at common law.

Except as provided in Paragraph 55 (Waiver of Claim-Splitting Defenses), these covenants not to sue shall not apply in the event that the United States brings a cause of action or issues an order pursuant to the reservations set forth in Paragraphs 43, 44, and 46 (b) - (c), but only to the extent that Settling Defendant's claims arise from the same response action, response costs, or damages that the United States are seeking pursuant to the applicable reservation.

The Settling Defendant reserves, and this Consent Decree is without 49. prejudice to, claims against the United States, subject to the provisions of Chapter 171 of Title 28 of the United States Code, for money damages for injury or loss of property or personal injury or death caused by the negligent or wrongful act or omission of any employee of the United States while acting within the scope of his office or employment under circumstances where the United States, if a private person, would be liable to the claimant in accordance with the law of the place where the act or omission occurred. However, any such claim shall not include a

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27 28 claim for any damages caused, in whole or in part, by the act or omission of any person, including any contractor, who is not a federal employee as that term is defined in 28 U.S.C. § 2671; nor shall any such claim include a claim based on EPA's selection of response actions, or the oversight or approval of the Settling Defendant's activities. The foregoing applies only to claims which are brought pursuant to any statute other than CERCLA and for which the waiver of sovereign immunity is found in a statute other than CERCLA.

Nothing in this Consent Decree shall be deemed to constitute 50. preauthorization of a claim within the meaning of Section 111 of CERCLA, 42 U.S.C. § 9611, or 40 C.F.R. § 300.700(d).

XV. EFFECT OF SETTLEMENT; CONTRIBUTION PROTECTION

- Nothing in this Consent Decree shall be construed to create any rights 51. in, or grant any cause of action to, any person not a Party to this Consent Decree. The preceding sentence shall not be construed to waive or nullify any rights that any person not a signatory to this decree may have under applicable law. Each of the Parties expressly reserves any and all rights (including, but not limited to, any right to contribution), defenses, claims, demands, and causes of action which each Party may have with respect to any matter, transaction, or occurrence relating in any way to the Site against any person not a Party hereto.
- 52. The Parties agree, and by entering this Consent Decree this Court finds, that the Settling Defendant is entitled, as of the Effective Date, to protection from contribution actions or claims as provided by CERCLA Section 113(f)(2), 42 U.S.C. § 9613(f)(2), for matters addressed in this Consent Decree.
- The "matters addressed" in this Consent Decree are all a. response actions taken or to be taken and all response costs incurred or to be incurred by the United States or any other person with respect to the Site. The

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27 28 "matters addressed" in this Consent Decree do not include those response costs or response actions as to which the United States, or its departments, agencies or instrumentalities have reserved their rights under this Consent Decree (except for claims for failure to comply with this Consent Decree), in the event that the United States asserts rights against Settling Defendant coming within the scope of such reservations.

- The Settling Defendant agrees that with respect to any suit or claim 53. for contribution brought by it for matters related to this Consent Decree, it will notify the United States in writing no later than 60 days prior to the initiation of such suit or claim.
- The Settling Defendant also agrees that with respect to any suit or 54. claim for contribution brought against it for matters related to this Consent Decree, it will notify in writing the United States within 10 days of service of the complaint on the Settling Defendant. In addition, Settling Defendant shall notify the United States within 10 days of service or receipt of any Motion for Summary Judgment and within 10 days of receipt of any order from a court setting a case for trial.
- In any subsequent administrative or judicial proceeding initiated by 55. the United States for injunctive relief, recovery of response costs, or other appropriate relief relating to the Site, Settling Defendant shall not assert, and may not maintain, any defense or claim based upon the principles of waiver, res judicata, collateral estoppel, issue preclusion, claim-splitting, or other defenses based upon any contention that the claims raised by the United States in the subsequent proceeding were or should have been brought in the instant case; provided, however, that nothing in this Paragraph affects the enforceability of the covenants not to sue set forth in Section XIII (Covenants Not to Sue by Plaintiff).

XVI. ACCESS TO INFORMATION

56. Settling Defendant shall provide to EPA, upon request, copies of all documents and information within its possession or control or that of its agents relating to activities at the Site or to the implementation of this Consent Decree. Settling Defendant shall also make available to EPA, for purposes of investigation, information gathering, or testimony, its employees, agents, or representatives with knowledge of relevant facts concerning the implementation of this Consent Decree.

57. <u>Business Confidential and Privileged Documents</u>.

- a. Settling Defendant may assert business confidentiality claims covering part or all of the documents or information submitted to Plaintiff under this Consent Decree to the extent permitted by and in accordance with Section 104(e)(7) of CERCLA, 42 U.S.C. § 9604(e)(7), and 40 C.F.R. § 2.203(b). Documents or information determined to be confidential by EPA will be afforded the protection specified in 40 C.F.R. Part 2, Subpart B. If no claim of confidentiality accompanies documents or information when they are submitted to EPA, or if EPA has notified Settling Defendant that the documents or information are not confidential under the standards of Section 104(e)(7) of CERCLA or 40 C.F.R. Part 2, Subpart B, the public may be given access to such documents or information without further notice to Settling Defendant.
- b. The Settling Defendant may assert that certain documents, records and other information are privileged under the attorney-client privilege or any other privilege recognized by applicable law. If the Settling Defendant asserts such a privilege in lieu of providing documents, it shall provide the Plaintiff with the following: (1) the title of the document, record, or information; (2) the date of the document, record, or information; (3) the name and title of the author of the document, record, or information; (4) the name and title of each addressee and

recipient; (5) a description of the contents of the document, record, or information: and (6) the privilege asserted by Settling Defendant. However, no documents, reports or other information created or generated pursuant to the requirements of the Consent Decree shall be withheld on the grounds that they are privileged.

58. No claim of confidentiality shall be made with respect to any data, including, but not limited to, all sampling, analytical, monitoring, hydrogeologic, scientific, chemical, or engineering data, or any other documents or information evidencing conditions at or around the Site.

XVII. RETENTION OF RECORDS

- 59. Until 10 years after the Settling Defendant has caused the Environmental Restriction Covenant to be recorded, as required by Paragraph 12, Settling Defendant shall preserve and retain all non-identical copies of records and documents (including records or documents in electronic form) now in its possession or control or which come into its possession or control that relate in any manner to its liability under CERCLA with respect to the Site, provided, however, that Settling Defendant must retain, in addition, all documents and records that relate to the liability of any other person under CERCLA with respect to the Site. Each of the above record retention requirements shall apply regardless of any corporate retention policy to the contrary.
- 60. At the conclusion of this document retention period, Settling Defendant shall notify the United States at least 90 days prior to the destruction of any such records or documents, and, upon request by the United States, Settling Defendant shall deliver any such records or documents to EPA. The Settling Defendant may assert that certain documents, records and other information are privileged under the attorney-client privilege or any other privilege recognized by federal law. If the Settling Defendant asserts such a privilege, it shall provide the Plaintiff with the following: (1) the title of the document, record, or information;

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- (2) the date of the document, record, or information; (3) the name and title of the author of the document, record, or information; (4) the name and title of each addressee and recipient; (5) a description of the subject of the document, record, or information; and (6) the privilege asserted by Settling Defendant. However, no documents, reports or other information created or generated pursuant to the requirements of the Consent Decree shall be withheld on the grounds that they are privileged.
- 61. Settling Defendant hereby certifies that, to the best of its knowledge and belief, after thorough inquiry, it has not altered, mutilated, discarded, destroyed or otherwise disposed of any records, documents or other information (other than identical copies) relating to its potential liability regarding the Site since notification of potential liability by the United States regarding the Site and that it has fully complied with any and all EPA requests for information pursuant to Section 104(e) and 122(e) of CERCLA, 42 U.S.C. 9604(e) and 9622(e), and Section 3007 of RCRA, 42 U.S.C. 6927.

XVIII. NOTICES AND SUBMISSIONS

Whenever, under the terms of this Consent Decree, written notice is 62. required to be given or a report or other document is required to be sent by one Party to another, it shall be directed to the individuals at the addresses specified below, unless those individuals or their successors give notice of a change to the other Parties in writing. All notices and submissions shall be considered effective upon receipt, unless otherwise provided. Written notice as specified herein shall constitute complete satisfaction of any written notice requirement of the Consent Decree with respect to the United States, EPA, and the Settling Defendant, respectively.

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63. The effective date of this Consent Decree shall be the date upon which this Consent Decree is entered by the Court, except as otherwise provided herein.

XIX. RETENTION OF JURISDICTION

64. This Court retains jurisdiction over both the subject matter of this Consent Decree and the Settling Defendant for the duration of the performance of the terms and provisions of this Consent Decree for the purpose of enabling any of the Parties to apply to the Court at any time for such further order, direction, and relief as may be necessary or appropriate for the construction or modification of this Consent Decree, or to effectuate or enforce compliance with its terms, or to resolve disputes in accordance with Section XI (Dispute Resolution) hereof.

XX. APPENDICES

65. The following appendices are attached to and incorporated into this Consent Decree:

"Appendix A" is the Amended ROD.

"Appendix B" is the description and map of the Site.

"Appendix C" is the Environmental Restriction Covenant.

"Appendix D" is the description and map of the Property owned by Settling Defendant.

XXI. MODIFICATION

- 66. Schedules specified in this Consent Decree for completion of the obligations may be modified by agreement of the Settling Defendant and EPA. All such modifications shall be made in writing.
- 67. Nothing in this Decree shall be deemed to alter the Court's power to enforce, supervise or approve modifications to this Consent Decree.

XXII. LODGING AND OPPORTUNITY FOR PUBLIC COMMENT

- 68. This Consent Decree shall be lodged with the Court for a period of not less than thirty (30) days for public notice and comment in accordance with Section 122(d)(2) of CERCLA, 42 U.S.C. § 9622(d)(2), and 28 C.F.R. § 50.7. The United States reserves the right to withdraw or withhold its consent if the comments regarding the Consent Decree disclose facts or considerations which indicate that the Consent Decree is inappropriate, improper, or inadequate. Settling Defendant consents to the entry of this Consent Decree without further notice.
- 69. If for any reason the Court should decline to approve this Consent Decree in the form presented, this agreement is voidable at the sole discretion of any Party and the terms of the agreement may not be used as evidence in any litigation between the Parties.

XXIII. SIGNATORIES/SERVICE

- 70. The undersigned representative of the Settling Defendant to this Consent Decree and the Assistant Attorney General for the Environment and Natural Resources Division of the Department of Justice certifies that he or she is fully authorized to enter into the terms and conditions of this Consent Decree and to execute and legally bind such Party to this document.
- 71. Settling Defendant hereby agrees not to oppose entry of this Consent Decree by this Court or to challenge any provision of this Consent Decree unless the United States has notified the Settling Defendant in writing that it no longer supports entry of the Consent Decree.
- 72. Settling Defendant shall identify, on the attached signature page, the name, address and telephone number of an agent who is authorized to accept service of process by mail on behalf of that Party with respect to all matters arising

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under or relating to this Consent Decree. Settling Defendant hereby agrees to accept service in that manner and to waive the formal service requirements set forth in Rule 4 of the Federal Rules of Civil Procedure and any applicable local rules of this Court, including, but not limited to, service of a summons. The parties agree that Settling Defendant need not file an answer to the complaint in this action unless or until the court expressly declines to enter this Consent Decree.

XXIV. FINAL JUDGMENT

- 73. This Consent Decree and its appendices constitute the final, complete, and exclusive agreement and understanding among the parties with respect to the settlement embodied in the Consent Decree. The parties acknowledge that there are no representations, agreements or understandings relating to the settlement other than those expressly contained in this Consent Decree.
- Upon approval and entry of this Consent Decree by the Court, this 74. Consent Decree shall constitute a final judgment between and among the United States and the Settling Defendant. The Court finds that there is no just reason for delay and therefore enters this judgment as a final judgment under Fed. R. Civ. P. 54 and 58.

SO ORDERED THIS DAY OF John, 2006

United States District Judge

Acting Assistant Attorney General Environment and Natural Resources Division
U.S. Department of Justice
Washington, D.C. 20530

July 7, 2005

Environmental Enforcement Section Environment and Natural Resources

Division U.S. Department of Justice P.O. Box 7611

Washington, D.C. 20044-7611

MONICA L. MILLER
Assistant United States Attorney
Central District of California
U.S. Department of Justice
Federal Building, Suite 7516
300 North Los Angeles Street
Los Angeles, California 90012
Calif. Bar No. 157695
Telephone: (213) 894-4061
Facsimile: (213) 894-7819
Email: monica.miller@usdoj.gov

Signature page for the Consent Decree involving the Waste Disposal Inc., Superfund Site in Sante Fe Springs, California, settling the Case of United States of America v. Raymond and Donnis Holbrook Trust (C.D. Cal.)

FOR THE UNITED STATES OF AMERICA

Director, Superfund Division

U.S. Environmental Protection Agency

Region IX 75 Hawthorne St.

San Francisco, CA 94105

Assistant Regional Counsel

U.S. Environmental Protection Agency

Region IX 75 Hawthorne St., ORC-3 San Francisco, CA 94105

. . . . '

Signature page for the Consent Decree involving the Waste Disposal Inc.,

of America v. Raymond and Donnis Holbrook Trust (C.D. Cal.)

FOR RAYMOND AND DONNIS HOLBROOK TRUST

Superfund Site in Sante Fe Springs, California, settling the Case of United States

Date	Signature: Donny J. Holbrook Name (print): DONNIS H. HOBROOK Title: Trustee Address: 15620 MINNETONIA CIC
Agent Authorized to Accept Serv	vice on Behalf of Above-signed Party:

Name (print): Title:

Ph. Number:

Address:

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APPENDIX A

WASTE DISPOSAL, INC.

AMENDED RECORD OF DECISION

June 2002

Waste Disposal, Inc. Superfund Site Santa Fe Springs, California 90670

United States Environmental Protection Agency Region 9 - San Francisco, California

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ACRONYMS AND ABBREVIATIONS

The definitions below are provided as clarification for abbreviations.

AOMD	Air Quality Management District
AUMID	All Guality Management 2 to 1

Applicable or Relevant and Appropriate Requirement ARAR

below ground surface bas

Benzene, Toluene, Ethylbenzene and Xylenes BTEX

British Thermal Units BTU California Civil Code CCC

California Code of Regulations CCR

Chronic Daily Intake CDI Camp Dresser & McKee CDM

Comprehensive Environmental Response, CERCLA

Compensation and Liability Act

Comprehensive Environmental Response, **CERCLIS**

Compensation and Liability Information System

Code of Federal Regulations CFR

California Health and Safety Code CHSC

California Integrated Waste Management Board **CIWMB**

centimeters per second cm/sec Chemical of Concern COC

Dichloroethene DCE

Department of Toxic Substance Control **DTSC**

United States Environmental Protection Agency **EPA** Emergency Response Notification System

ERNS .

Environmental Response Team ERT

Feasibility Study FS

geosynthetic clay layer GCL

gallons per day gpd gallons per hour gph

General Response Action GRA

Horizontal:Vertical H:V Health Index HI

Integrated Risk Information System IRIS Interim Threshold Screening Levels ITSL

kilometer km

Leachate Collection Point LCP Maximum Contaminant Level MCL daily milligrams per kilogram Mg/kg-day

mean sha level msl milligrams per liter mg/L

National Contingency Plan NCP

Negative Impact NΙ

No Net Advantage or Disadvantage **NNA**

NOAEL

no-observed-adverse effect level

National Priorities List NPL Operation and Maintenance M&O Polyaromatic hydrocarbons PAH Polychlorinated Biphenols PCB

Tetrachloroethylene PCE Positive Impact PI

part per billion by volume vdqq Personal Protective Equipment PPE

past per million ppm

Preliminary Remediation Goals PRGs Potentially Responsible Parties PRPs Remedial Action Objective RAO

Resource Conservation and Recovery Act RCRA

Remedial Design RD Reference Dose RfD

Remedial Investigation/Feasibility Study RI/FS

Reasonable Maximum Exposure RME

Record of Decision ROD Recreational Vehicle RV

Superfund Amendments and Reauthorization Act SARA

Slope Factors SF

Supplemental Feasibility Study SFS Significant Negative Impact SNL Significant Positive Impact SPI

Soluble Threshold Limit Concentration STLC

Soil Vapor Extraction SVE

Semivolatile Organic Compounds SVOC

To Be Considered TBC Trichloroethane TCA Trichloroethene TCE

Toxicity Characteristic Leaching Procedure **TCLP**

Technically Impractical TI Technical Memorandum TM Toxicity, Mobility or Volume TMV Toxic Release Inventory System TRIS

Treatment, Storage and Disposal Facility TSDF

micrograms per liter μg/L

Underground Storage Tank UST Vista Informational Systems, Inc. VISTA

volatile organic compound VOC

Waste Disposal, Inc. WDI

Waste Disposal, Inc. Group WDIG

square yards yd² cubic yards yd3

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Waste Disposal, Inc. - Amended Record of Decision

PART I - DECLARATION FOR THE AMENDED RECORD OF DECISION

A. Site Name and Location

Waste Disposal, Incorporated (WDI) (CERCLIS ID #980884357) Los Nietos Road at Greenleaf Avenue and Santa Fe Springs Road Santa Fe Springs, California 90670

B. Statement of Basis and Purpose

This decision document presents the amendment to the Selected Remedial Action for the Waste Disposal, Inc. (WDI) site in Santa Fe Springs, California. The original Record of Decision (ROD) for this site was signed on December 27, 1993. The original ROD and this Amended ROD present a remedial action that has been selected in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA), CERCLA Sec. 117, and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) Section 300.435(c)(2)(ii).

This decision is based on the Administrative Record file for the site. This Amended ROD will become part of the Administrative Record file for the site in accordance with the NCP Sec. 300.825(a)(2). A copy of the Administrative Record is available for review during normal business hours at the Santa Fe Springs Public Library located at 11700 Telegraph Road and at the U.S. EPA Records Center located at 95 Hawthorne Street in San Francisco, California.

The U.S. EPA is the lead agency for this site. The California Department of Toxic Substances Control (DTSC) is a support agency. DTSC has concurred with the amended remedy selection.

C. Circumstances Requiring Amended ROD

This Amended ROD modifies the previously selected remedy for the contaminated soils and addresses groundwater conditions at the WDI site. This Amended ROD adopts the same general format as the original ROD, but incorporates and relies upon new information obtained since the signing of the original ROD in 1993.

Based on information that became available after the signature of the original ROD in 1993, EPA determined that an Amended ROD would be required to ensure protection of human health and the environment. The information that has become available concerning the site includes: the expanded lateral extent and volume of buried waste.

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on the site; new information on the nature and increased extent of soil gas beneath the site; and the presence of liquids inside the buried concrete-lined reservoir at the center of the site.-EPA determined that this additional information was sufficient to warrant additional site investigations and further analysis of the potential remedy alternatives for the site.

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The amended remedy selection process for this site has been based on information presented in the Supplemental Feasibility Study that was completed in May 2001. The Supplemental Feasibility Study presents a detailed analysis of remedial alternatives addressing the updated information regarding the nature and extent of contamination on the site.

Assessment of the Site D.

The response action selected in this Amended Record of Decision is necessary to protect the public health or welfare or the environment from actual or threatened releases of hazardous substances to the environment.

Description of the Revised Remedy E.

This amended ROD selects the final remedy for the site and addresses waste materials, contaminated soil, subsurface liquids, subsurface gases, and groundwater conditions. These conditions will be remediated primarily through containment, collection and treatment of gases, collection and removal of site liquids, and institutional controls. EPA has also determined that there has been no demonstration that the site has contributed to exceedances of groundwater standards. To ensure continued protection of the groundwater, the revised remedy will incorporate groundwater monitoring and institutional controls (ICs), including groundwater ICs.

The major components of the revised remedy are as follows:

- Installation of a RCRA-equivalent cap for hazardous waste over the existing 1. reservoir (in Area 2).
- Installation of engineered capping systems for areas outside the reservoir (in 2. _Area 2) that will be designed to achieve RCRA solid waste engineering and performance standards, including a hydraulic conductivity of 10-6 centimeters per second, and graded soil monofill covers, asphalt, concrete paving, and/or building foundations Engineered capping systems will be installed over selected portions of Areas 1, 2, 4, 5, 6, 7, and 8, ...
- Installation of a gas collection, extr. ction, and treatment system beneath the 3. RCRA-equivalent cap over the reservoir in Area 2 to collect, remove and treat subsurface gases.

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Installation of liquids collection systems including liquids collection points (LCPs) 4. in the reservoir (Area 2), to monitor, collect, and extract leachate and free liquids for treatment and disposal at an off-site facility approved by EPA;

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- Use of engineering controls (e.g. physical barriers and/or indoor venting 5. systems) at, and/or within, existing and new buildings overlying or adjacent to waste to prevent exposure to site contaminants. Existing buildings or structures in locations where it is not technically feasible to install engineering controls will be demolished and removed.
- To minimize the potential exposure to soil gas, passive gas migration control 6. (e.g. bioventing wells) or active soil vapor extraction systems will be installed along portions of the waste perimeter outside of the reservoir area and near existing buildings. Monitoring systems will be installed to ensure performance.
- Implementation of institutional controls (ICs), including zoning ordinances, 7. access controls, groundwater use restrictions, and restrictive covenants, to ensure the integrity of remedial systems, minimize the potential for exposure to residual wastes and hazardous substances, and to restrict land use and site access;
- Implementation of long-term groundwater monitoring to ensure that the revised 8. remedy is not contributing to exceedances of groundwater standards; and
- Implementation of long-term operations and maintenance (O&M) to ensure that 9. all environmental systems and control components are functioning effectively.

No significant impacts from WDI wastes on groundwater quality have been identified based on groundwater sampling and the comparison of sampling data with the locations and characteristics of waste sources at the site. Some contaminants are detected upgradient, laterally distant from the WDI waste sources, and in relatively deep water bearing zones. Although several chemicals of concern (volatile organic chemicals and metals) have been detected above their respective State drinking water maximum contaminant levels (MCLs) in groundwater samples, these exceedances do not appear to be related to site wastes based on their distribution in groundwater. MCL exceedances have been limited to several upgradient or deep monitoring wells. However, exceedances are absent from shallow or intermediate depth wells downgradient from the WDI waste sources. After extensive monitoring, EPA has determined that the site has not contributed to exceedances of groundwater MCLs. EPA has accordingly made the decision not to maintain a separate operable unit for groundwater and will incorporate groundy atter monitoring and institutional controls to restrict use of groundwater underlying the site into this revised remedy. In the original ROD, EPA contemplated a separate operable unit for groundwater. This amended

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ROD, therefore, serves as the final record of decision for the entire site. As a final remedy, this amended ROD incorporates long-term operations and maintenance (O&M), into the revised remedy.

F. ROD Data Certification Checklist:

The following information is included in the Decision Summary (Part II) of this Amended ROD:

- Chemicals of Concern (COCs, Section E), and their respective health-based concentrations (Section L);
- Summary of site risks represented by the COCs (Section G);
- Cleanup levels and performance standards established for the COCs (Section L);
- How source materials constituting principal threats are addressed (Sections H and I);
- Current and reasonably anticipated future land use assumptions and current and potential future beneficial uses of groundwater used in the risk assessment and amended ROD (Section F);
- Potential groundwater use that will be available at the site as a result of the Revised Remedy (Section F);
- Estimated capital, annual O&M, and total present worth costs, discount rate, and the number of years over which the remedy cost estimates are projected (Section L); and
- Key factors that led to selecting the remedy (Section L).

Additional information can be found in the Administrative Record file for this site.

I. Statutory Determinations

The revised remedy is protective of human health and the environment, complies with federal and state requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost-effective. This remedy uses permanent solutions and alternative treatment (or resource recovery) technologies to the maximum extent practicable for this site. However, because treatment of the principal threat of the site was not found to be practicable, this remedy does not satisfy the statutory preference for treatment as a principal element. Consistent with the NCP and EPA guidance and

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directives, including <u>Guidance for Conducting Remedial Investigations/Feasibility</u>
<u>Studies for CERCLA Municipal Landfill Sites (EPA OSWER Directive 9355.3-11,
February 1991)</u>, and <u>Presumptive Remedy for CERCLA Municipal Landfill Sites (EPA Directive 9355.0-49FS, September 1993)</u>, EPA has selected containment as the presumptive remedy to address the low-level threat from the site.

Because this remedy will result in hazardous substances remaining on-site above levels that allow for unlimited use and unrestricted exposure, a review will be conducted at least once every five (5) years after commencement of the remedial action to ensure that the remedy continues to provide adequate protection of human health and the environment pursuant to Section 121(C) of CERCLA, 42 U.S.C. §9621(C).

John Kemmerer

Chief, Site Cleanup Branch

Superfund Division

United States Environmental Protection Agency

Region 9

Date

PART II - DECISION SUMMARY

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Site Name, Location, and Description

The Waste Disposal, Incorporated (WDI) site consists of approximately 43 acres located in an industrial area on the east side of Santa Fe Springs in Los Angeles County, California. The site boundaries include Santa Fe Springs Road on the northwest, a warehouse and a private high school on the northeast, Los Nietos Road on the southwest, and Greenleaf Avenue on the southeast. A residential area lies to the east of the site.

The CERCLIS ID number for the site is: CAD980884357.

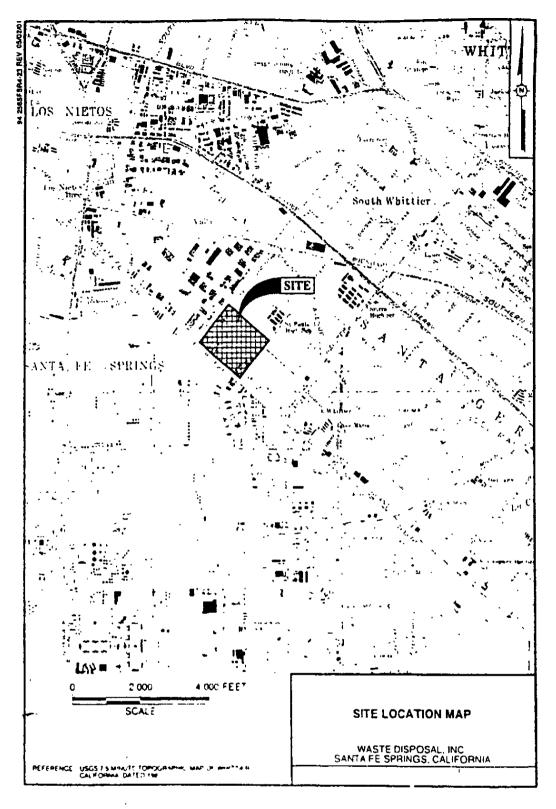
The U.S. Environmental Protection Agency (EPA) is the lead agency for the site. The California Department of Toxic Substances Control (DTSC) is a support agency. DTSC has concurred with the amended remedy selection.

EPA is issuing this Amended ROD as a result of additional information that became available since the issuance of the original ROD for the site in 1993. This additional information relates to the expanded areal extent of waste and contaminated soils at the site, as well as additional soil, groundwater, and soil gas characterization data that were obtained since issuance of the original ROD.

Funding for site remediation is expected to be provided through settlements with potentially responsible parties. The site conceptual model and remediation strategy address the site as a landfill by utilizing remedy components including containment (i.e. capping), liquids and gas monitoring and control, engineering controls, access and institutional controls, groundwater monitoring, and long-term operations and maintenance (O&M).

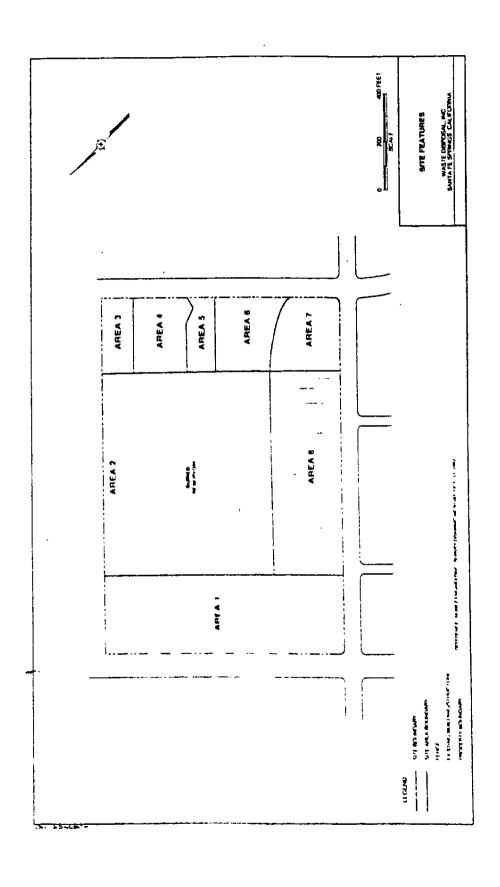
The 43-acre site consists of 22 parcels of land that are owned by 17 individual landowners. A buried 42-million gallon reservoir (600 feet in diameter and 25 feet deep), located in the center of the site, was used for the disposal of a variety of liquid and solid wastes. In addition, wastes were disposed of outside of the reservoir (in Area 2) and have been delineated in many of the parcels located around the perimeter of the reservoir. Twenty structures are located on-site and have been used for past and current small business activities. See Figure 1 for a site location map. Figure 2 shows a site layout map by Area (eight waste handling areas have been identified based on reviews of aerial photographs, drilling logs, and other site investigations). See Figure 3 for a 1998 aerial photograph of the site.

Case 2:05-cv-06723-SVV



WASTE DISPOSAL, INC. AMENDED RECORD OF DECISION Figure 1
Site Location

Case 2:05-cv-06723-SVWW/BK



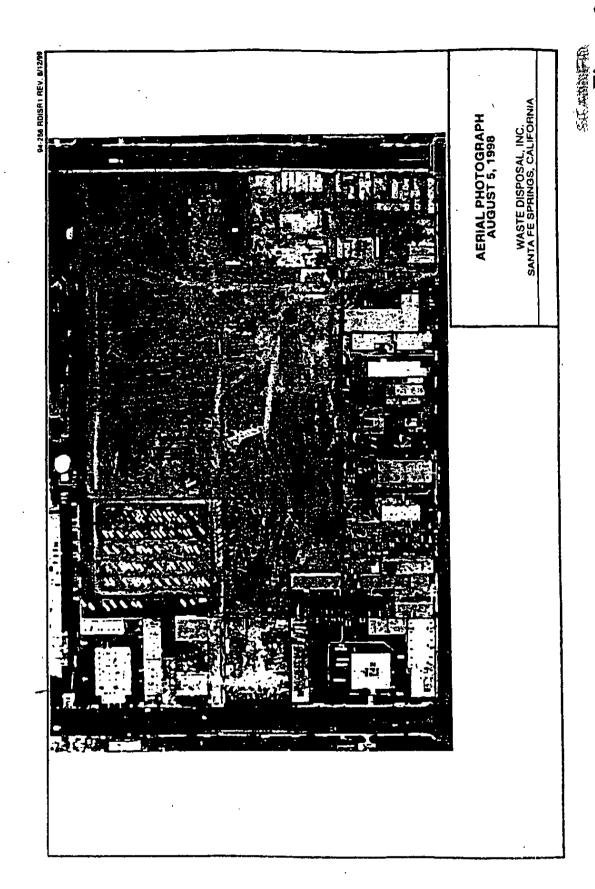
AMENDED RECORD OF DECISION WASTE DISPOSAL, INC.

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B. Site History & Enforcement Activities

The most significant feature of the WDI site is the buried 42-million gallon concrete-lined reservoir (600 feet in diameter and 25 feet deep), located within Area 2 in the center of the site. The reservoir was constructed prior to 1924 and was initially used for crude petroleum storage. The areas outside of the reservoir began to be used for the unregulated disposal of a variety of liquid and solid wastes and the possible storage and mixing of drilling muds by the late 1920s. Sometime between 1937 and 1941, the owner/operators removed the reservoir cover anticipating a change of use. After removal of the reservoir cover, the reservoir was used from the early to mid-1940s until the mid-1960s for the disposal of a variety of liquid and solid wastes.

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The disposal site operated under a permit from Los Angeles County from 1949 until 1964, and may have operated for roughly two to three years afterwards while the site was graded. Permitted wastes included rotary drilling muds, clean earth, rock, sand, gravel, paving fragments, concrete, brick, plaster, steel mill slag, dry mud cake from oil field sumps, and acetylene sludge. Investigations have shown that disposed materials also included, but were not limited to, the following unpermitted wastes: organic wastes, oil refinery wastes, solvents, petroleum-related chemicals, and other chemical wastes. Wastes were disposed within the reservoir and in areas adjacent to and outside of the reservoir.

While disposal activities continued during the 1950s, the reservoir and some of the areas of the site outside the reservoir were gradually developed for commercial and industrial use. By 1963, the reservoir was covered with fill and by 1964, most, although not all, disposal activities appeared to have ceased. Grading over the remainder of the buried wastes continued until approximately 1966. A number of structures were constructed for small business enterprises.

The site was placed on the National Priorities List (NPL) on July 22, 1987. Following the site's NPL listing, EPA issued General Notice Letters to 28 Potentially Responsible Parties (PRPs). The list included current and former property owners, generators, and transporters identified during the PRP search. At that time, no party came forward with a good faith offer to conduct the Remedial Investigation (RI), and EPA commenced the RI in 1988 as a "Fund-lead" project. In 1988, EPA also undertook a removal action, erecting a fence around the southern corner of the site at Los Nietos Road and Greenleaf Avenue to improve site security and prevent accidental exposure to contamination.

EPA completed the initial RI in November 1990 and commenced work on a Feasibility Study (FS). Considering comments from the State of California, EPA decided to undertake further groundwater sampling and analysis. In January 1992, EPA commenced additional groundwater monitoring at WDI in order to assess the possibility that the site had contributed to exceedances of groundwater standards.

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In August 1993, EPA completed the Feasibility Study for contaminated soils and subsurface gases for Operable Unit #1 (OU1), and released the Proposed Plan. In December 1993, EPA signed a Record of Decision (ROD) for OU1. EPA designated second operable unit (OU2) for groundwater and decided to reserve selection of a groundwater remedy pending completion of groundwater investigations. The 1993 ROD selected a remedy for OU1 that included excavation, reconsolidation, and containment of waste using a RCRA-equivalent capping system over the reservoir, with associated soil gas control and monitoring.

In 1994, EPA issued Unilateral Administrative Order (UAO) #94-17 to eight PRPs to compel commencement of Remedial Design (RD) activities for the site. EPA issued Amended UAO #97-09 in 1997 to add thirteen additional parties to the PRP working group, and ordered additional investigative activities at the site as well as continued remedial design activities. This PRP group, known as the Waste Disposal, Inc. Group (WDIG), has performed numerous site investigative and design activities at the site since 1994.

Based on new information compiled and obtained during additional investigative. activities concerning the nature and lateral extent of waste and soil gas at the site, EPA determined that the ROD should be amended. This Amended ROD addresses fundamental changes in the scope, performance, and cost of the originally selected remedy. Work on the supplemental remedial design investigations and the Supplemental Feasibility Study continued from 1997 to May 2001. EPA and WDIG completed the Supplemental Feasibility Study in May 2001, and EPA held a public comment period and conducted a public hearing on the proposed plan for the revised remedy in June 2001.

Between 1992 and 2000, EPA and the WDIG conducted extensive groundwater investigations at the WDI site. Additional monitoring wells were constructed and sampled in conjunction with continued sampling of the existing monitoring well network. While groundwater sampling has identified some contamination in the vicinity of the WDI site, EPA believes that this contamination is not attributable to the WDI site (Groundwater Data Evaluation Report, 2000). To ensure protection of the groundwater, this Amended ROD incorporates groundwater monitoring and groundwater ICs as part of the remedy.

Table 1 presents a general chronology of the site history, including selected significant events and activities.

Community Participation C.

Community participation activities under the original ROD are summarized in Section 4.0 of the 1993 ROD. Refer to Table 1 of this Amended ROD for a listing of other community participation activities since 1993. Following completion of the

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TABLE 1 CHRONOLOGY OF SIGNIFICANT CERCLA PROCESSES AND ACTIVITIES AT THE **WDI SITE**

	And the second s
DATE	EVENT/ACTIVITY
1986	Proposed NPL Listing
1987	Final NPL Listing
1987	General Notice issued to 28 PRPs
1987-1988	Removal Action (Fencing, Drum Removal)
1987-1989	Remedial Investigation (and report)
1989-1990	Endangerment Assessment
1992	Begin Groundwater Monitoring Activities
1993	Start of Feasibility Study
1993	Proposed Plan
1993	ROD Signature
1994	Administrative Unilateral Order 94-17
1994-1995	Predesign Investigations
1995	Predesign Report
1996	90% Remedial Design Report
1996	Community Meeting on 90% Design Report
1996	Public Meetings
1996	Decision to Review Remedy Selection & Prepare an Amended ROD
1997	Amended Administrative Unilateral Order 97-09 (to add additional generator PRPs and perform additional remedial design investigative activities)
1997-1998	Remedial Design Investigations
1997-1999	Priot Scale Liquids Treatability Study (TM-13)
1997-2000	Continue Groundwater Investigations
1999	Community Meetings on Remedial Design
2000	Groundwater Data Evaluation Report
2001	General Notice re-issued to additional PRPs, including current owners
2001	Completion of Supplemental Feasibility Study
2001	Remedial Design Investigations Summary Report
2001	Public Meeting on Proposed Plan

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Supplemental Feasibility Study for WDI in May 2001, EPA released the Proposed Plan for the revised remedy on June 1, 2001. At that time, EPA also announced that the updated Administrative Record file for the site was available, including additional Remedial Investigation reports, the Supplemental Feasibility Study, and the Proposed Plan. The Administrative Record File is located at the EPA Region 9 offices in San Francisco, and at the local information repository in the Santa Fe Springs Public Library in Santa Fe Springs, California. A public comment period was conducted from June 1 to July 2, 2001.

A public hearing on the Proposed Plan was held on June 14, 2001 in Santa Fe Springs and was attended by a variety of community and landowner representatives. At the public hearing EPA presented a summary of the proposed remedy for the site and answered questions concerning the elements of the remedy. Public comments were received and recorded at the meeting. Several written comments were also received during the Public Comment period. EPA's responses to both the oral and written comments received during this period are included in the Responsiveness Summary (Part III) of this Amended ROD.

D. Scope & Role of Operable Unit

The original 1993 ROD identified two distinct OUs for the WDI site:

Operable Unit 1 (Original):

Contaminated soil & soil gas

Operable Unit 2 (Original):

Contaminated groundwater

The 1993 ROD focused on OU1, addressing contaminated soil and soil gas. The ROD anticipated that OU2 for groundwater would be separately addressed at a later date. However, groundwater investigations conducted between 1998 and 2000 ultimately led EPA to determine that the WDI site has not caused exceedances of groundwater standards as defined by California maximum contaminant levels (MCLs). EPA accordingly has concluded that only continued groundwater monitoring and the use of ICs will be necessary to ensure that site-related hazardous substances do not contribute to exceedances of MCLs

This Amended ROD presents the revised remedy for OU1 and incorporates OU2 by addressing all known contaminated media at the site. This Amended ROD serves as the final Record of Decision for the entire WDI site. This Amended ROD will address buried waste, contaminated soils, soil gas, liquids, groundwater monitoring, and ICs (including groundwater ICs), under the revised remedial action.

Site Characteristics E.

Site Overview 1.

For descriptive purposes, the site has been divided into eight areas (Areas 1 through 8) as shown in Figure 2. The eight areas contain 22 parcels of land,19 of which contain various currently operating businesses (e.g. machine shops, auto repair shops, and light industrial complexes). Investigations have shown that 11 of the 19 parcels have structures located over buried waste. Three of the 22 parcels are currently unoccupied. Areas 1 and 8 of the site are occupied by several light industrial complexes and small commercial businesses. The buried 42-million gallon capacity reservoir is located in the central portion of Area 2. The northwestern portion of the reservoir area is covered with an asphalt parking lot and is currently used for recreational vehicle storage. The remaining portion of Area 2 is undeveloped. Areas 3 through 7 are adjacent to Greenleaf Avenue. Areas 3 and 4 are undeveloped and are the closest areas to nearby residential areas. One structure located in Area 5 is used for a commercial business. Areas 6 and 7 are also undeveloped and contain several concrete foundations that remain from previous structures.

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The WDI site is located on property designated for industrial land use. Zoning for the site is M-2 Heavy Manufacturing. The City of Santa Fe Springs is highly supportive of commercial and industrial development in the area, and has been seeking to redevelop the WDI site for industrial land uses The WDI site is within the Norwalk Boulevard Redevelopment Project Area, which has been merged into the Consolidated Redevelopment Project. EPA has provided a grant to the City of Santa Fe Springs under the Superfund Redevelopment Initiative program to prepare a master redevelopment plan for the parcels included within the WDI site. This Amended ROD anticipates that the existing land use designation will remain in effect, and that the site may be redeveloped at some point in the future for industrial purposes.

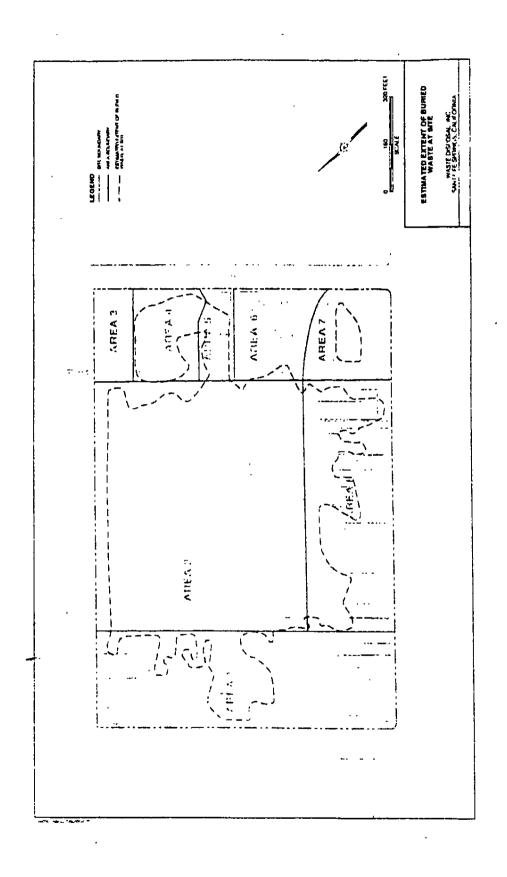
Location and Extent of Contamination 2.

Soil borings were drilled at the WDI site for geologic logging and chemical characterization during two primary periods of investigation; the 1988 RI conducted by the EPA and the 1997 Remedial Design Investigations conducted by both EPA and WDIG: Constituents detected in waste include volatile organic compounds (VOCs), primarily benzene, toluene, ethylbenzene, and xylene (BTEX); semivolatile organic compounds (SVOCs), and heavy metals such as arsenic, chromium, copper, and lead. Waste and contaminated soil have been identified throughout Area 2, which contains the buried reservoir, and portions of Areas 1, 4, 5, 6, 7, and 8 where other buried wastes have been found. Figure 4 presents the estimated delineation of the extent of waste as reflected by current site information obtained from 1988 through 2001. The



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buried waste and impacted soil ranges in thickness from an average of approximately 5 to 10 feet to a maximum of 20 feet.

3. Soil Gas

In-business air monitoring (sampling and analyses of ambient air within the building/business environment) at six existing structures has shown no indication of migration of site-related gas into on-site businesses.

Soil gas "hot spots" are present in the subsurface (vadose zone) within and outside the reservoir (in Area 2) in many areas of the site, including shallow fill soils, buried waste material, and deeper native soils. The "hot spots" are characterized by elevated levels (e.g., exceeding preliminary remediation screening levels) of BTEX, methane, petroleum hydrocarbons, and chlorinated volatile organic compounds (VOCs) in soil gas. Investigations have revealed that there are large variations in subsurface gas concentrations across the site area. Chloroform, trichloroethane, tetrachloroethene (PCE), benzene, methane, trichloroethene (TCE), and vinyl chloride have been detected. PCE is the most prevalent VOC detected in soil gas at the WDI site. TCE has the highest average concentration among the detected soil gas compounds and vinyl chloride shows the highest overall concentrations but has been detected at only a limited number of soil gas monitoring points. The primary constituents detected are methane, benzene, vinyl chloride, TCE, and PCE.

A pilot test was performed from 1997 to 1998 to assess the feasibility of high vacuum extraction for soil gas removal. Removal of subsurface gases at the site using high vacuum extraction has been shown to provide only limited effectiveness due to relatively low rates of gas generation, anisotropic conditions, and the low-conductivity character of the host media.

4. Liquids

Multiple investigations have indicated the presence of perched liquids and/or leachate both within the reservoir area (in Area 2) and at various isolated locations outside of the reservoir. Liquids were encountered within the reservoir at depths ranging between 4 and 12 feet below ground surface (bgs). In some portions of the reservoir, liquids appear to be perched above discontinuous, low-conductivity seams of waste materials. In other portions of the reservoir area, liquids appear to extend to the base of the reservoir. The distribution of liquids appears to reflect the manner in which wastes were disposed of (i.e., individual batches), resulting in the formation of isolated pockets of liquids of varying composition. The presence of liquids is associated with the presence of thin seams and discrete zones of low permeability fill/waste materials within the reservoir wastes. Liquids were also encc_ntered outside the reservoir during the 1997 and 1998 field investigations conducted by WDIG and EPA.

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Liquids investigations indicate that reservoir (in Area 2) liquids/leachate contain CERCLA hazardous substances, including but not limited to VOCs, such as benzene. toluene, ethylbenzene, and vinyl chloride; SVOCs; PCBs; and metals such as arsenic chromium, and lead. In addition to the presence of liquids in the underlying waste, the 1997-1998 remedial design investigations indicated that liquids were also generated substantially through infiltration of surface rainwater rather than due to the presence of liquids in the underlying waste. A pilot scale liquids treatability study performed in 1999 assessed the potential for removal and treatment of site liquids. During the treatability study, approximately 129,350 gallons of aqueous liquids were extracted and treated along with 800 gallons of oily liquids. Extraction rates commenced at 120 gallons per hour and decreased significantly to 2 gallons per hour at the end of the 52-week study. Overall performance of liquids extraction was limited due to the heterogeneity and anisotropy of the waste mass. The study indicated that liquids removal might be technically feasible, but is cost-prohibitive due to the very low extraction rates. Installation of containment systems to prevent infiltration of rainwater will substantially inhibit the generation of liquids within the reservoir and the perimeter areas.

Groundwater & Hydrogeology 5.

The WDI site is located in the Whittier area of the Los Angeles Central Groundwater Basin. WDI is underlain by unconsolidated recent alluvium and the Lakewood and San Pedro formations (primarily Pleistocene age fluvial sedimentary deposits). Based on extensive RI soil boring characterization, the subsurface stratigraphy and materials at the WDI site include:

- 5-15 feet of fill material covering the concrete reservoir (in Area 2), waste containment areas, and most of the site;
- 10 25 feet of sandy clay and silt that underlie the fill and waste deposits;
- 50 feet of sandy, pebbly, channelized braided river (fluvial) deposits that underlie the near-surface interval;
- Groundwater that has been encountered at depths of 48 to 65 feet bgs;
- Interbedded sand and pebbly sand units underlie the shallower fluvial channelized deposits around 80 to 130 feet bgs. Although local low-conductivity layers/lenses occur throughout the site, a laterally extensive and continuous confining bed has not been identified either above or below the groundwater table.

The Groundwater Data Evaluation Report (U.S. Army Corps of Engineers and CDM Federal, 2000) presents detailed analysis of the hydrogeology at the WDI site. Figure 5 presents a hydrogeologic cross section of the WDI site. Regional data demonstrates

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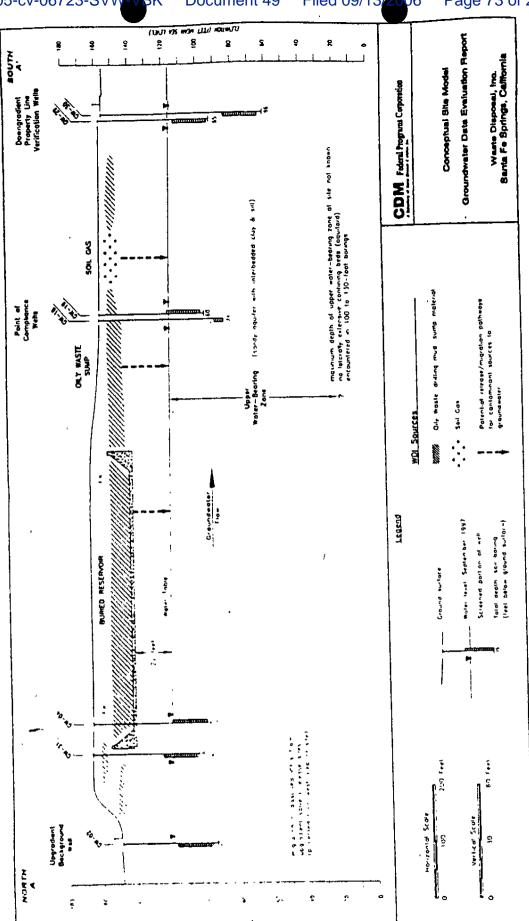


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the presence of deeper water bearing zones extending in depth from 70 feet to approximately 1,000 feet bgs. The upper water bearing zone (estimated to be 100 feet or greater in thickness) appears to comprise a continuous and interconnected sandy aquifer interbedded with minor amounts of clay and silt. The deepest soil borings (100) to 130 bgs) drilled at the WDI site to-date have not identified laterally extensive confining beds within in the upper water-bearing zone. The maximum depth of the upper water bearing zone at the site is not known but may extend to depths of 150 to 200 feet bgs based on regional data. Below the upper aquifer zone are thicker and more extensive sand and gravel aquifers of the San Pedro Formation (to depths up to 1000 feet bgs). Groundwater flows generally southward, flowing radially southeast on the southeastern portion of the site and radially southwest on the southwestern portion of the site. The horizontal groundwater gradients are very low across the site ranging from 0.002 feet/foot in the western portion of the site to 0.003 feet/foot in the eastern portion of the site. The gradient steepens to 0.035 feet/foot in the southwestern comer of the site. See Figure 6 for a presentation of groundwater contours and flow directions as of September 1997. The vertical gradient varies across the site ranging from 0.008 feet/foot in the southwestern part of the site to 0.052 feet/foot in the southern central portion of the site. Groundwater flow rate or seepage velocity has been estimated to range from 6 to 60 feet/year based on assumed hydraulic conductivities soil characteristics present at the WDI site. The City of Santa Fe Springs owns and operates three municipal wells (located north [0.9 miles upgradient], west [1.3 miles], and south [4 miles] of the site) that are completed in deeper aquifers between 200 and 900 feet bgs. No wells in the vicinity produce water from the shallow groundwater zone that underlies the WDI site. As described in the 2000 Groundwater Data Evaluation Report, 1994 and 1995 water quality analyses for the water well south of WDI showed no detections for VOCs. 1997 analyses for the water well north of WDI showed PCE and TCE concentrations of 4.5 μ g/l and 1.4 μ g/l, respectively (1997). In addition, groundwater data at several nearby industrial sites northwest of WDI indicate much higher releases of these contaminants.

WDI is situated in a heavily industrial area and the production of oil from the Santa Fe Springs Oil Field has been ongoing since the early 1900s. As part of the Groundwater Data Evaluation, a Site Assessment Report was acquired from VISTA Information Solutions, Inc. (VISTA) that included information on sites within a 1.25-mile radius of WDI. As discussed in evaluations incorporated in the 2000 Groundwater Data Evaluation Report, upgradient and cross-gradient of the WDI site are several properties that have had confirmed solvent (PCE, TCE) releases. Groundwater investigations at three sites located to the northwest of WDI indicated concentrations of VOCs in groundwater that considerably exceed Federal and State MCLs (greater than 10,000 $\mu g/l$). The sites located upgradient of WDI have documented contamination at much



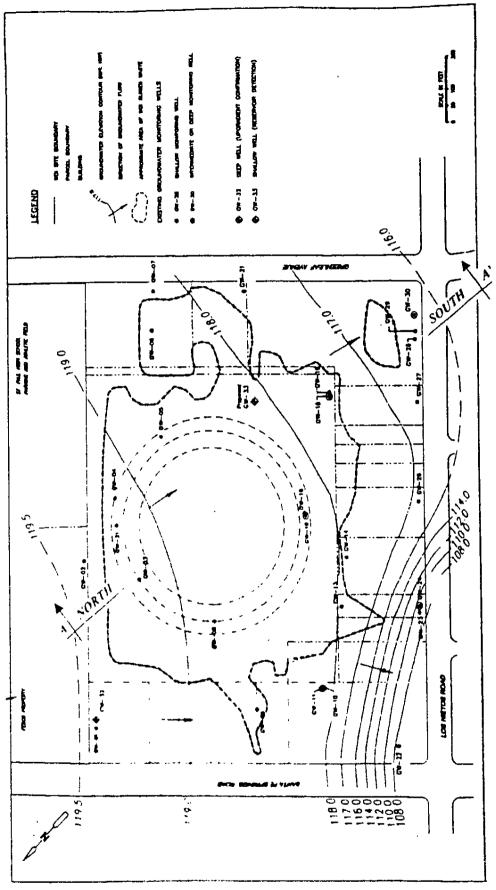
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Figure 5

Site Hydrologic Cross Section

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higher concentrations than for any of the VOCs detected in groundwater at the WDI site. For these reasons, it is most likely that the PCE and TCE detected in groundwater monitoring wells in the western portion of the WDI site are related to solvent releases associated with the upgradient industrial sites. The Groundwater Data Evaluation Report and subsequent groundwater monitoring report the following conclusions:

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- The primary VOCs detected in groundwater samples are PCE and TCE generally at concentrations less that 20 μ g/l. PCE and TCE concentrations in two monitoring wells exceed their respective primary drinking water MCLs (5 μ g/l). These VOCs have been detected only in the western portion of the site. The exceedances have been limited to upgradient and deep monitoring wells (screened to 128 feet bgs). Shallow and intermediate depth monitoring wells, including wells located immediately adjacent to deep wells with exceedances. show predominantly non-detects or minor detections below MCLs. Based on groundwater flow conditions, the distribution of detections, and information on offsite groundwater contamination sites (see discussion above), the sources of the PCE and TCE detected in the monitoring wells in the western portion of WDI appear to be from solvent releases associated with upgradient industrial sites.
- There appears to be no LNAPL or DNAPL sources contributing to groundwater contamination beneath the site since high concentrations (i.e., > 1,000 μ g/l) of dissolved solvents or BTEX and evidence of oily sheen have not been observed in any of the groundwater sampling conducted at the WDI site.
- Groundwater sampling at WDI has not shown a consistent distribution or detection of the primary metals (arsenic, chromium, copper, lead) which are present at elevated concentrations in WDI wastes. The concentrations of these metals in groundwater are generally very low and have only exceeded their MCLs in isolated sampling rounds. Evidence of migration or impact to groundwater from metals in WDI waste has not been observed in the groundwater sampling data.
- Elevated concentrations of aluminum, iron, manganese, and selenium have been detected in groundwater samples, in local cases above primary or secondary drinking water standards. The fact that these metals are detected - uniformly across the site (locally at higher concentrations in upgradient wells) suggest that the elevated concentrations reflect regional water quality conditions and are not related to onsite sources.

As recommended in the 2000 Groundwater Data Evaluation Report, two additional monitoring wells were installed at the WDI site to monitor conditions upgradient of (depth of about 120 feet bgs) and directly adjacent to and downgradient of the reservoir in Area 2 (approximate depth of 60 feet bgs). Analytical results available for 2001 showed no VOC detections for either of these wells.

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6. Identification of Chemicals of Concern (COCs)

On-site soils contain oil well drilling muds, sludges, petroleum-related waste products, low concentrations of VOCs and SVOCs, low concentrations of pesticides and PCBs, arsenic, chromium, and lead. Subsurface gas includes methane along with various VOCs, such as benzene, chloroform, vinyl chloride, PCE, and TCE, among others. The primary risk drivers are benzene, with a soil gas standard of 10.0 parts per billion by volume (ppbv), and vinyl chloride, with a soil gas standard of 10.0 ppbv. The California Integrated Waste Management Board Methane Standards of 5.0 percent at the site boundary and 1.25 percent in on-site buildings are also considered media-specific health-based COC concentration limits.

EPA has used data that was collected during initial remedial investigations and substantiated during subsequent site investigation to identify chemicals of concern in soil, soil gas, and groundwater. See Table 2 for a listing of COCs that have been identified for the WDI site and their media of occurrence. The COCs identified in soil include 11 metals, 7 chlorinated pesticides, 16 VOCs, polyaromatic hydrocarbons (PAHs), and PCBs. Among those listed in Table 2, COCs identified for soil gas include benzene, carbon tetrachloride, chloroform, 1,2-dibromoethane, PCE, 1,1,1-TCA, TCE, and vinyl chloride. For groundwater, the COCs include arsenic, lead, manganese, mercury, toluene, carbon tetrachloride, chloroform, PCE, and TCE. Since the preparation of the 1993 ROD, EPA has identified additional chemicals of concern in groundwater and soil gas. Benzene, xylenes, and vinyl chloride have been added as COCs in groundwater. Chemicals added as COCs in soil gas include 1,2-dichloropropane, ethylbenzene, toluene, and xylenes.

7. Conceptual Site Model

Figure 7 summarizes the Conceptual Site Model (CSM) on which the risk assessment and remedial actions are based. The model addresses potential impacts to soil, air, and groundwater and illustrates contaminant sources, release mechanisms, exposure pathways, migration routes, and potential receptors. Key components of the model are described below.

a. Sources of Contamination from the WDI Site

The primary sources of contamination include solid and liquid wastes that were buried in association with operation of the WDI site. Additional sources comprise contamination that may be associated with the operations of numerous small businesses that have been developed on the site. COCs at the WDI site are listed in Table 2. The primary contaminant sources (buried concrete reservoir in Area 2, other

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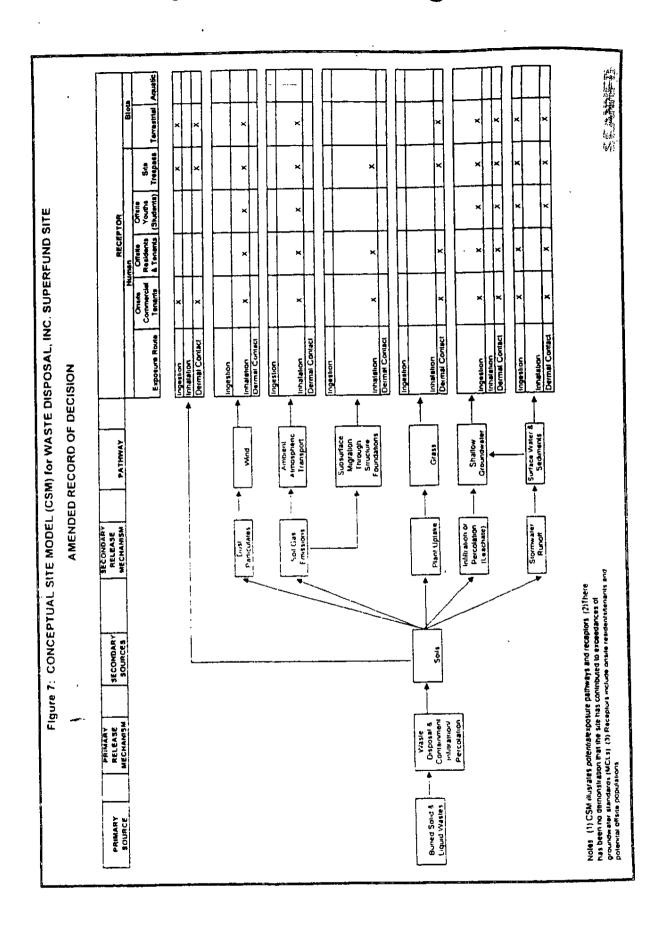
CHEMICALS OF CONCERN FOR ALL SITE MEDIA WASTE DISPOSAL, INC. SUPERFUND SITE

CONSTITUENT	SURFACE SOIL	SOILS (0-20 FT.)	GROUNDWATER	SUBSURFACE SOIL GAS
Inorganics	1		<u>-</u>	
Antimony	Х	Χ		
Arsenic	X	X	X	
	X		 	
Cadmium	X	X		
Chromium	X		 	
Copper	 	<u> </u>	X	
Lead	 	- x	<u> </u>	
Manganese	x		- x	
Mercury	1 x	- x		
Selenium	 	- x	- 	
Thalium	^	- 		
Zinc				
Chlorinated Pesticides	 _ 			
Aldrin	 	X X	 	
gamma-BHC (lindane)	 		_ 	
Chlordane	X	X		
DDT, DDD, DDE	X	X		
Dieldrin	X	Х		
Heptachior	<u> </u>	X		
Heptachlor Epoxide	X	Х	<u> </u>	
Volatile Organic Compounds (VOCs)				<u> </u>
Pentachlorophenol	Х	X		<u> </u>
Benzene	XX	X	Χ	Х
1.4 Dichlorobenzene		X		
Ethylbenzene	X	X		X'
Toluene	X	X	X	X'
Xylenes	Х	λ	X.	Χ'
Benxoic Acid	λ	X		<u> </u>
2-Butanone	X	X	<u> </u>	
Carbon Tetrachiorige		X	X	X
Chlorolom		X	X	X
1.2- Dibromomethane				X
1,2-Dichloroethane				Х
1 1- Dichloroethene				X
1.2.4-Trimethylbenzene				Χ
1.2-Dichloroethene (cis)				Χ'
1,2-Dichloroethene (trans)				Χ'
1.2.Dichloropropane				χ
1,3,5-Trimethylbenzene	λ	X		. Х.
Chioromethane				Χ'
Methylene Chlonde	X	X		Χ'
Tetrachioroethene	 	X	Х	X
1,1,1-Trichioroethane		x		X
Trichloroethene		х	X	Х
Vinyl Chlonde		X	X' X'	X
Polycyclic Aromatic Hydrocarbons		 		
Noncarcinogenic	, <u>,</u>	- x		-
Carcinogenic		1 ×		
Polychlorinated Biphenyls (PCBs)	 			

L) Added for Amended ROD

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buried waste areas/waste handling areas, Area 1 and Areas 3-8, and soil gas) occur at depths ranging from 5 to 25 feet bgs across the site. The estimated lateral extent of buried waste has been expanded since issuance of the 1993 ROD. Figure 3 illustrates the extent of buried waste based on recent site investigations.

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Release Mechanisms b.

Release mechanisms are associated with waste disposal activities as well as methods utilized at the site to control and contain sources of contamination (e.g., existing concrete reservoir in Area 2). Other mechanisms include transmission of contaminantladen dust, plant uptake, potential commingling and infiltration of waste constituents to subsurface soils and groundwater, and potential impacts from stormwater runoff. Particularly relevant to the WDI site, investigations have also documented the formation of soil gas which may impact future site occupants, including tenants of on-site businesses.

Exposure Pathways C.

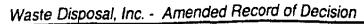
Primary exposure routes to potential receptors include: direct contact, ingestion, or inhalation of soil particulates (e.g., wind-borne dust associated with the site); inhalation of ambient atmospheric transported soil gas emissions; and inhalation of subsurface soil gas constituents migrating through structure foundations.

Exposure pathways include wind, ambient atmospheric transport, subsurface migration, grass, groundwater, surface water, and sediments,

The primary pathways for potential contaminant migration to groundwater include direct release of waste liquids from the concrete reservoir in Area 2, direct release of liquids or leaching of contaminants from the buried waste sump areas, and leaching or diffusion of VOCs from soil gas.

d. Primary Receptors

Receptors include on-site occupants of the WDI site, such as tenants of existing and future industrial enterprises. Also considered in the model are other human receptors such as offsite youths (students at school adjacent to the site), offsite residents, and potential trespassers on the site



Current & Potential Future Site & Resources Uses

Current Land Use

The WDI site encompasses a total of 22 individual land parcets, 19 of which currently contain structures. Zoning for the site is M-2 Heavy Manufacturing with an Industrial land use designation. Existing structures accommodate a wide variety of light industrial enterprises, including recreational vehicle storage, a tool and die shop, printing and plating shops, and vehicle maintenance facilities.

Adjacent land uses include residential areas and additional businesses that undertake light industrial and commercial activities. A private high school with associated athletic playing fields is located directly north of the WDI site. Throughout the community involvement process (see Section C for discussion of community participation), the high school has expressed concerns regarding (1) short-term and long-term visual impacts, (2) short-term construction noise, (3) offsite drainage, and (4) potential offsite migration of contamination.

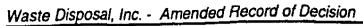
Accommodation of Future Use of the Site 2.

Since the issuance of the original 1993 ROD, the City of Santa Fe Springs has continued to express a strong interest in redeveloping the site for industrial uses. In 2000, EPA provided a grant to the City of Santa Fe Springs under the Superfund Redevelopment Initiative (SRI) to develop a master plan for the future redevelopment and reuse of the site. The City is preparing the development plan and is exploring numerous industrial land uses.

Recognizing the City's interest in redevelopment of the site, EPA evaluated remedial alternatives as presented in the Supplemental Feasibility Study that address redevelopment according to separate and distinct strategies. These strategies emphasize protection of human health and the environment through implementation of containment systems. The alternatives differ, however, with respect to the timing and sequencing of redevelopment. Alternatives 2, 4, and 5 would involve a two-step approach to redevelopment, entailing (1) early implementation of EPA's remedial action and (2) later redevelopment of the site that could involve parcel consolidation and redevelopment for non-residential uses by other entities. Under Alternatives 2, 4, and 5 the remedial action would be planned and designed to accommodate future redevelopment by the City or other panies to the maximum extent practicable while not compromising or interfering with EPA's mandate to protect public health and the environment. Alternative 3 includes integrated remediation and redevelopment of the site according to both EPA's remediation plan and a City-approved master redevelopment plan that would take into consideration restricted reuse of the buried reservoir area. Alternative 3 in the Supplementary Feasibility Study included removal of

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all current structures and site preparation for future uses. EPA did not select Alternative 3 as the preferred alternative, however, because it is not feasible to concurrently include redevelopment directly as part of EPA's remedy for the site at this time and because EPA does not have authority to control or mandate the redevelopment. Moreover, the challenges of directly integrating the implementation of the containment remedy with redevelopment are considered significant.

Implementation of the remedy would need to be delayed to allow the City to finalize its redevelopment plans, enter into development agreements, and work with existing landowners whose businesses may potentially be relocated. The revised remedy presented in this Amended ROD (Alternative 2) will be generally compatible with the City's desire to redevelop the site in the future. Within EPA's authority, and to the maximum extent practicable, the design and implementation for the remedy will be accomplished so as not to preclude appropriate redevelopment of the site.

3. Anticipated Future Groundwater Use

The City of Santa Fe Springs currently owns and operates three municipal water supply wells, two of which are located within 1.5 miles of the WDI site. According to State and City sources one well is located 0.9 mile upgradient from the site and produces water from aquifer zones ranging between 200 and 900 feet bgs. Another well is located 1.3 miles west of the WDI site and is screened in a deep aquifer zone, but is currently not active. The other active municipal water supply well is located four miles south and downgradient of the site and produces water from deeper aquifer zones below 300 feet bgs. Historical information, summarized in the *Final Groundwater Characterization Report* (Ebasco, 1989), has indicated that several private wells were constructed within one mile of the WDI site and were historically used to produce water from deeper water-bearing zones for irrigation and industrial purposes.

The revised remedy will include long-term groundwater monitoring to ensure that the remedy is functioning effectively and to detect any releases from the site that may adversely impact local groundwater. The remedy will include institutional controls that will prevent exposure to contaminated groundwater and prohibit the construction of any new on-site wells without approval by EPA. Institutional controls will also address coordination with state and local regulatory agencies to restrict the potential permitting and construction of any new wells in contaminated shallow water- bearing zones in the vicinity of the WDI site.

G. Summary of Site Risks

The potential risks identified at the WDI site are exposure by direct contact with contaminated soil, the inhalation of contaminated soils via dust, and the inhalation of gases migrating into enclosed spaces. Rink evaluations were performed for COCs detected at the site, including metals, pesticides, VOCs, and SVOCs.

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An Endangerment Assessment was first performed by EPA in November 1989 (EBASCO, 1989) to estimate the potential risk to current users of the site. This assessment quantitatively evaluated the risks to current and future site receptors at the site. The Endangerment Assessment was conducted for the "current" site uses including the presence of trespassers, nearby off-site adult and child residents, and nearby off-site students exposed to airborne particles and VOCs. The assessment concluded that the highest potential cancer risk (plausible maximum) is approximately 3 X 10-5 (or 3 in 100,000) which is within the cancer risk range considered acceptable by EPA (Table 3). The noncarcinogenic Hazard Index (HI) for current uses were also below 1 and considered acceptable except for trespassers contacting surface soils with an HI equal to 3.

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For future land use scenarios, the 1989 Endangerment Assessment assumed a residential (i.e., unrestricted) scenario that evaluated on-site residents contacting contaminated surface soil; on-site residents ingesting contaminated groundwater; and on-site residents inhaling contaminants in indoor air from subsurface gas migration. The Assessment concluded that the highest potential cancer risk (plausible maximum) is approximately 3 X 10-3 (or 3 in 1,000), which is outside the cancer risk range considered acceptable by EPA (Table 3). The noncarcinogenic HI for future uses was greater than 1 and considered unacceptable for residents contacting soil, and residents ingesting contaminated groundwater. Presently, the anticipated future use of the property is industrial; the assumption of residential use in the 1989 report is considered to be a conservative, health-protective assumption. Because of the proximity of the site to residences and a school, and the growth anticipated in the area, this conservative residential assumption is reasonable. The 1989 Endangerment Assessment used the following criteria to identify COCs listed in the previous section:

- Comparison with blanks: The Endangerment Assessment used trip and field blanks to identify compounds that are not site-related.
- Comparison with background concentrations: The Endangerment Assessment typically did not identify inorganics as COCs if sample concentrations were less than five times the background concentrations.
- Frequency of detection: The Endangerment Assessment typically did not identify -a chemical as a COC if it was detected in less than five percent of the samples.
- Consideration of concentration, toxicity, and physicochemical properties: The Endangerment Assessment typically did not include compounds with very low toxicity as COCs. Conversely the Endangerment Assessment did identify highly toxic compounds as COCs.



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SUMMARY OF POTENTIAL HEALTH RISKS WASTE DISPOSAL, INC. SUPERFUND SITE TABLE 3

Tree passers contacting surface soils Average Plausible Maximum Average Plausible Maximum Tree passers contacting surface soils SE-07 3E-05 5E-07 3E-06 3E-09 3E-09 Off site residents inhaling alroane particulates 3E-06 6E-06 2E-09 2E-09 3E-04 2E-09 3E-04 2E-09 3E-04	EXPOSURE SCENARIO (1)	TOTAL LIFETIM	TOTAL LIFETIME CANCER RISKS	NONCARCINOGE (CD	NONCARCINOGENIC HAZARD INDEX (CDI/RID)
CURRENT LAND USE SE-07 3E-05 5E-02 Ualetes 3E-06 8E-06 2E-03 SE-07 2E-06 3E-04 2E-03 SE-07 2E-06 3E-04 2E-04 e Chemicals 3E-07 4E-04 4E-07 schemicals 3E-08 1E-06 4E-07 schemicals 3E-08 3E-07 4E-07 schemicals 3E-08 3E-07 4E-07 schemicals 3E-08 3E-07 4E-07 schemicals 3E-08 3E-07 4E-07 schemicals 3E-06 3E-00 2E-01 schemicals 3E-05 3E-00 2E-01 schemicals 3E-06 3E-00 2E-01 schemicals 3E-05 3E-00 2E-01 schemicals 3E-05 3E-00 2E-01 schemicals 3E-05 3E-00 2E-01 schemicals 3E-05 3E-00 2E-00 schemicals <t< th=""><th></th><th>Average</th><th>Plausible Maximum</th><th>Average</th><th>Plausible Maximum</th></t<>		Average	Plausible Maximum	Average	Plausible Maximum
Licals SE-07 3E-05 SE-02 Achemicals 3E-06 8E-06 2E-03 SE-07 2E-06 3E-04 2E-04 SE-07 8E-07 2E-04 2E-04 SE-08 1E-06 4E-07 4E-07 Icals 3E-08 1E-06 4E-07 FUTURE LAND USE 2E-01 2E-01 2E-01 AE-05 3E-04 2E-01 2E-01 AE-06 3E-06 2E-01 2E-01 AE-07 4E-07 4E-07 4E-07 AE-08 3E-04 2E-01 2E-01 AE-05 3E-04 2E-01 2E-01 AE-05 3E-04 2E-00 2E-01 AE-05 3E-04 2E-00 2E-00 AE-05 3E-04 5E-01 2E-00		CURRENT LAND	USE		
Licals 8E-07 2E-03 2E-03 2E-03 2E-03 2E-03 2E-04 2E-06 4E-07 4E-07 2E-06 4E-07 4E-07 <t< td=""><td>Trespassers contacting surface soils</td><td>5E-07</td><td>3E-05</td><td>5E-02</td><td>3E+00 (2)</td></t<>	Trespassers contacting surface soils	5E-07	3E-05	5E-02	3E+00 (2)
3E-06 8E-07 2E-03 SE-04 SE-06 SE-07 SE-07 SE-07 SE-07 SE-07 SE-07 SE-07 SE-07 SE-07 SE-01 SE-01 <th< td=""><td>Offsite residents inhaling airborne particulates</td><td></td><td></td><td></td><td></td></th<>	Offsite residents inhaling airborne particulates				
SE-07 2E-06 3E-04 e chemicals 2E-07 4E-07 4E-04 e chemicals 3E-07 4E-07 4E-04 se chemicals 3E-08 1E-06 4E-07 se chemicals 3E-08 4E-07 4E-07 icals 3E-08 3E-06 4E-07 FUTURE LAND USE 2E-01 2E-01 3E-05 3E-04 5E-01 4E-05 3E-03 2E+00 cals in indoor air 6E-05 6E-04 6E-05 6E-04 5E-01	.0.1 km	3E-06	9E-06	2E-03	2E-03
2E-07 8E-07 2E-04 e chemicals 2E-07 4E-04 e chemicals 3E-07 2E-06 5E-08 5E-06 4E-07 5E-08 3E-07 4E-07 icals 3E-08 3E-07 4E-07 FUTURE LAND USE 7E-04 2E-01 2E-05 3E-04 5E-01 4E-05 3E-04 5E-01 cals in indoor air 6E-05 6E-04 6E-05 6E-04 5E-01	.0 5 km	5E-07	2E-06	3E-04	3E-04
c chemicals 3E-07 5E-06 2E-06 5E-08 1E-06 2E-06 5E-08 3E-07 2E-07 icals 3E-08 3E-07 4E-07 FUTURE LAND USE 7E-04 2E-01 SE-05 3E-06 7E-04 2E-01 AE-05 3E-04 5E-01 7E-00 cals in Indoor air 6E-05 6E-04 5E-01 Gals in Indoor air 6E-05 6E-04 9E-04		2E-07	8E-07	2E-04	2E-04
c chemicals SE-08 SE-06 2E-06 SE-08 SE-07 2E-07 SE-08 SE-07 4E-07 FUTURE LAND USE 7E-04 2E-01 SE-05 3E-03 2E-01 SE-05 3E-04 5E-01 cals in Indoor air 6E-05 6E-04 5E-04 Gals in Indoor air 6E-05 6E-04 9E-04	Students inhaling airborne particulates	2E-07	4E-07	4E-04	5E-04
se-of se-o6 ze-o6 se-o8 te-o6 4E-07 cals in Indoor air se-o5 se-o6 re-o4 se-o5 se-o4 se-o1 se-o5 se-o6 se-o1 se-o5 se-o6 se-o1 se-o5 se-o6 se-o5 se-o6 se-o5 se-o6 se-o6 se-o6 se-o7 se-o6 se-o6 se-o6 se-o6 se-o6 se-o6 se-o6 se-o7 se-o6 se-o6 se-o6 se-o7 se-o6 se-o6 se-o6 se-o7 se-o6 <td>Offsite residents inhaling airborne votatile chemicals</td> <td></td> <td></td> <td></td> <td></td>	Offsite residents inhaling airborne votatile chemicals				
SE-08 1E-06 4E-07 icals 3E-08 3E-07 2E-07 icals 3E-08 3E-07 4E-07 3E-08 7E-04 2E-01 2E-05 3E-04 2E-01 4E-05 3E-04 5E-01 cals in Indoor air 6E-05 6E-04 6E-05 6E-04 9E-04	-0 1 km	36-07	\$E-06	2E-06	9E-06
ceals 5E-07 2E-07 2E-07 4E-07 icals in Indoor air 3E-08 3E-07 4E-07 4E-07 4E-07 4E-07 4E-07 4E-01	-0. km	\$E-08	1E-06	4E-07	2E-06
icals 3E-08 3E-07 4E-07 FUTURE LAND USE 3E-06 7E-04 2E-01 2E-05 3E-03 2E+00 cals in Indoor air 4E-05 3E-04 5E-01 cals in Indoor air 6E-05 6E-04 5E-04	-1.0 km	2E-08	\$E-07	2E-07	9E-07
FUTURE LAND USE 3E-06 7E-04 2E-01 2E-05 3E-03 2E+00 4E-05 3E-04 5E-01 cals in Indoor air 6E-05 6E-04 6E-05 6E-04 5E-04	Students inhaling arrborne volatile chemicals	3€-08	3E-07	4E-07	3E-06
3E-06 7E-04 2E-01 2E-05 3E-03 2E+00 4E-05 3E-04 5E-01 . cals in indoor air 6E-05 6E-04 5E-04 .		FUTURE LAND U	SE		
3E-06 7E-04 2E-01 2E-05 3E-03 2E+00 4E-05 3E-04 5E-01 cals in Indoor air 6E-05 6E-04	Onsite Residents contacting soil				
2E-05 3E-03 2E+00 4E-05 3E-04 5E-01 cals in Indoor air 6E-05 6E-04 6E-05 6E-04 9E-04	- Adults	3E-06	7E-04	2E-01	1€+01
4E-05 3E-04 5E-01 cals in Indoor air 6E-05 6E-04 9E-04 9E-04	· Children	2E-05	3E-03	2E+00	5E+02
4E-05 3E-04 5E-01 . 6E-05 6E-04 5E-04	Onsite Residents ingesting groundwater				
6E-05 6E-04 5E-04	- Adults	4E-05	3E-04	5E-01	2E+00
6E-05 6E-04 5E-04 9E-04	- Children			2E+00	BE+00
6E-05 6E-04 5E-04	Onsite Residents inhaling volatile chemicals in Indoor air				
9E-04	. Adults	6E-05	6E-04	5E-04	1E-03
	- Children			9E-04	3E-03

commercial/industrial worker exposure (using EPA's default assumptions) is the exposure frequency (365 days per year for a worker) worker) and exposure duration (30 years for a resident versus 25 years for a worker). The combined difference between these receptors is 1.75 (i.e. 365/250 multiplied by 30/25). This difference is not great and would still yield a risk above the risk range for workers (the residential risk of s x 10-4 divided by 1.75 yields a worker risk of 3 x 10-4). scenario (but still above 10-4 to 10-6 cancer risk range). For example, the only differences between an adult residential exposure (assumed in the risk assessment) and a (2) Bold entries exceed EPA's 1 x 10⁻⁴ risk fevel or a Hazard Index of 1 using future land use scenario only.





1. Toxicity Assessment

For risk assessment purposes, human health effects of chemicals were separated into two categories of toxicity: noncarcinogenic and carcinogenic effects. For carcinogens, there is no threshold dose that may result in deleterious effects. This means that any level of exposure to a carcinogen may result in some level of risk of disease. For noncarcinogens, threshold doses are applicable as described below.

2. Reference Doses (Noncarcinogenic Effects)

Reference doses (RfDs) are the toxicity values used to evaluate noncarcinogenic effects. An RfD, expressed in units of daily milligrams per kilogram (mg/kg-day), represents an estimate of a daily exposure concentration that will not result in adverse effects in the most sensitive of individuals in a lifetime. If an exposure results in an estimated intake exceeding the RfD, there is a potential for adverse health effects. Table 4 presents the oral and inhalation RfDs used in the 1989 Endangerment Assessment as well as sources for the RfDs.

3. Cancer Slope Factors (Carcinogenic Effects)

To evaluate carcinogenic effects, EPA has developed cancer slope factors that define the relationship between dose and response of specific chemicals. Slope factors, expressed in units of daily milligrams per kilogram (mg/kg-day), estimate the probability of developing cancer per unit intake of a chemical. The probability of developing cancer equals the product of the slope factor times the exposure. EPA derives slope factors from laboratory studies with animals or from human epidemiological studies. The slope factor represents the upper 95th confidence level on a probability of a response per unit intake of a chemical over a lifetime. EPA classifies chemicals into the following several groups according to the weight of evidence showing that specific chemicals may cause cancer:

- Group A Human carcinogens (sufficient evidence of carcinogenicity in humans)
- Group B Probable human carcinogens (B1 -- limited evidence of carcinogenicity in humans; B2 -- sufficient evidence of carcinogenicity in animals with inadequate evidence for carcinogenicity in humans)
- Group C Possible Human Carcinogens (limited evidence of carcinogenicity in animals with limited evidence of carcinogenicity in humans)
- Group D Not Classifiable
- Group E No Evidence of Carcinogenicity

EPA typically develops slope factors (SFs) for chemicals classified in groups A, B1, and B2, and on a case-by-case basis for chemicals in Group C. Table 4 presents the slope factors for each of the WDI site COCs.

AROD_061402wpd.wpd



TOXICITY VALUES FOR CHEMICALS OF CONCERN WASTE DISPOSAL, INC. SUPERFUND SITE (1)

######################################	CHEMICAL OF POTENTIAL CONCERN	OPAL RID VALUE	INHALATION RID VALUE (mo/ko-day)	ORAL SLOPE FACTOR (mg/kg-day)	INHALATION SLOPE FACTOR (mg/kg-day)	SOURCES OF RID AND SLOPE FACTOR	USEPA CANCER CLASSIFICATION
15 17 18 19 19 19 19 19 19 19		(inc August					
SE 04 13 13 15 15 15 15 15 15	ORGANICS	20.00		-21	11	IRISHEA	82
13 14 15 15 15 15 15 15 15	Aldrin	20.35	:	2015.02	2 9F-02	IRIS/HEA	∢
13 13 13 14 15	Benzene		:	20 OF 2	· 2		
1 1 1 1 1 1 1 1 1 1	Sentene Hexachorde			-	;	SIBI	82
4E+00 9E 02 9E 02 13E-01 1	Gamina isomer (Lindane)	3E 04	;	-		3101	;
se for 2 9F 02 9F 02 1 3E-01 rarhlovula 6E 05 1 3E-01 1 3E-01 rechtane 1E 02 3 4E-01 3 4E-01 robertane 1E 01 2 4E-02 3 4E-01 robertane 5E-04 1 6E-02 1 6E-02 repoxide 6E-02 1 1E-01 2 4E-02 repoxide 6E-02 1 1 6E-01 1 1 6E-02 repoxide 6E-02 1 1 6E-02 1 1 6E-02 repoxide 6E-02 1 1 6E-02 1 1 6E-02 repoxide 6E-02 1 1 6E-02 1 1 6E-02 retrongenic 1 1 6E-02 1 1 6E-02 1 1 6E-02 retrongenic 1 1 6-01 1 1 1 6E-02 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4F+00	:	;	:	Sing	. :
rarhtorula 7E 04 1 3E-01 rectification 1 6 05 1 3E+00 rectification 1 6 05 1 3E+00 rectifiance 1 E 01 2 4E-01 rectifiance 1 E 01 2 4E-02 rectifiance 1 E 01 1 1 E 02 repoxide 1 3E-05 1 1 E 01 repoxide 1 3E-05 1 1 E 01 repoxide 1 3E-05 1 1 E 01 repoxide 1 3E-05 1 1 E 02 repoxide 1 3E-05 1 1 E 02 repoxide 1 3E-05 1 1 E 02 recinogenic 3 E 02 3 E 02 reinogenic 1 1 E 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SF 02	9E 02	:	:	A SUPPLIED	Č
13E-00 13E-01 13E-00 13E-00 13E-00 15E-01 13E-01 13E-01 13E-01 13E-01 13E-02 13E-03 13E-02 13E-03 1	the second of th	7F 04		1.36-01	1 3E-01	IAIS	22
1E 02	Control terror to the control of the	, yo		1.35+00	135+00	HRIS	B2
Fe-04 SE-04 SE-04 SE-01 SE-01 SE-01 SE-01 SE-01 SE-01 SE-01 SE-01 SE-02 SE-02 SE-02 SE-02 SE-02 SE-03 SE-02 SE-03 SE-0	Chlordave	60 70	. :	6 1F-03	8.1E-02	RIS	82
SE-04 SE-04 SE-01 SE-01 SE-01 SE-01 SE-01 SE-01 SE-02 SE-02 SE-02 SE-02 SE-02 SE-03 SE-04 SE-04 SE-04 SE-04 SE-04 SE-04 SE-04 SE-04 SE-04 SE-05 SE-04 SE-05 SE-04 SE-05 SE-0	Chloroform	70 4		2.4F-01	3.4 E-01	IRIS	82
## 1E-01 2E-01 2.4E-02 2.4E-03	001) - 1	:		7.66-01	INS SIM	82
## 1E-01 2E-01 2-10.2 5E-05	1,2 Dibromoethane	:	: 1	8 20 40	1 1	HEA	B2
5E-05 1.6E+01 1E 01 1E-01 1.6E+01 5E-04 1.3E-06 1 3E-02 7 5E-03 3E-02 7 7E+00 7 7E+00 1 1E-02 7 7E+00 1 1E-02 7 7E+00 1 1E-02 5 1E-02 3E-01 5 1E-02 3E-01 5 1E-02 3E-01 5 1E-02 3E-01 5 1E-02 7.35E-03 2.3E+00 2E+00 2.3E+00	1.4 Dichlorobenzene	1E-01	2E-01	2.45-02		Side	83
1E 01 1E 01 1.6E+01 1.6E+01 1.6E+01 1.3E-04 1.3E-04 1.3E-06 9.1E+00 9.	overtion of the contract of th	:	;	9.1E-02	9.16-02	2 (
second 1E-01 1E-01 4-5E+00 1-5E-04 1-5E-04 1-5E-00 1-5E-02 1-5E-03 1-5	1,2 Dictional and	5E-05	:	1.6E+01	1.6E+01	S (-
## 4 5E + 00	Dieldrin		15-01	:	1	E E E	: '
se-04 6E-02 3E-02 3E-02 3E-02 1.6E-02 7.7E+00 7.7E+00 6 1.15E+01 1.15E+01 1.15E+01 1.15E+01 1.15E+01 1.15E+01 1.15E+01 2.1E-02 3E-01 1.1E-02 3E-01 1.1E-02 3E-01 1.1E-02 3E-01 7.35E-03	Ethylbenzene		;	4 SE+00	4.5E+00	IRIS	B2
henyls Hydrocarbons C Hydrocarbons A 1E-01 A 1E-01 T 7E-03 T 7E-02 T 7E-00 T 15E-01 T 15E-01 T 15E-01 T 15E-01 T 15E-01 T 15E-01 T 11E-02	Heptachlor	50.70		0.15400	9.1E+00	LIPIS	82
henyls Hydrocarbons C T.7E+00 T.7E+00 T.15E+01 T.15E+01 T.15E+01 T.15E-01 T.15E-02 T.15E-02 T.15E-02 T.15E-01 T.15E-02	Heptachlor Epoxide	135-05	:	7.55.03	1.4E-02	HEA	B2
henyls Hydrocarbons C T.7E+00 1.15E+01 1.15E+01 1.15C-02 1.15E+01 1.15E+01 1.15E+01 1.15E-01 1.15E-01 1.15C-02 3E-01 1.15E-02 3E-01 1.15E-02 3E-01 1.15E-02 3E-01 1.15E-02 3E-01 1.15E-02	Methylene chloride	6E-02	: ;	20 12	1 6F-02	HEA/Cal EPA	82
Hydrocarbons 4 1E-01 1.15E+01 5.1E-02 5.1E-02 3E-01 1.1E-02 5.1E-02 3E-01 1.1E-02	Pentachlorophenol	3E-02	3E-02	20-20-1	;	FIRS	82
carbons 4 1E-01 4 1E-01 1.15E+01 1E-02 5 1E-02 3E-01 1E+00 5 1E-02 9E-02 3E-01 7.35E-03 1.1E-02	Polychlorinated Biphenyls	?	;	00+3/·/			
4 1E-01 4 1E-01 1.15E+01 1E-02	Polycyclic Aromatic Hydrocarbons					HEA	;
1E-02 5 1E-02 3E-01 1E+00	Noncarcinogenic	4 1E-01	4 1E-01	1 155.01	A 10F±00	HEA	82
1E-02 5 1E-02 3E-01 1E+00	Carcinogenic	,	:	1,12,13	3.35-03	IRISMEA	B2
3E-01 1E+00 1.1E-02	Totrachioropithana	1E-02	:	20-316	;	IBISAHEA	;
chloroethane 9E-02 3E-01 1.1E-02 iethene 1.35E-03 1.1E-02 ICS (continued) 2.3E+00 oride 2.3E+00		3E-01	1E+00	:	<u>.</u>		:
7.35E-03 1.1E-02	Oluene	9F.02	3E-01	:	1	2	
2.3E+00	1,1,1-Trichloroethane	1010	:	1.1E-02	1.3E-02	HEA	52
25±00 3E-01	Trichloroethene	7.35E-03					
2.3E+00	ORGANICS (continued)				20.00	SIBI	4
2F+01 3E-01	Vind chloride	;	:	2.35+00	7.3cs.7	HEA	
	Xylenes	2E+00	3E-01	-	:		

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(Continued) TABLE 4

CHEMICAL OF POTENTIAL CONCERN	ORAL RID VALUE (mo/ko-dav)	INHALATION RID VALUE	ORAL SLOPE FACTOR (ma/kg-day)	SLOPE FACTOR (ma/kg-day)	SOURCES OF RID AND SLOPE FACTOR	USEPA CANCER CLASSIFICATION
INORGANICS	a. a.					
Antimony	4E-04	4E-04	;	:	IRIS	:
Arsanc	. 1E-03	;	2 0E+00	5 0E+01	EPA, 1988/IRIS	∢
			;	1		18
Orokino water route	5E 04	;	;	6 1E+00	HEA	∢
Other routes	1E 03	;	:	;	IRIS/HEA	1
(III) Care and Care	16.00		;	4 1E+01	IRIS	•
(SA) Entropy	Sf 03		;	i	IRIS	:
Carac	4F 02	11, 02		:	EPA, 1987	;
7,44	6E 04	AE 04	;	:	;	1
Literature a	25 01	36.04	•	:	HEA	:
本の意思を行うという。	1F 04	\$0.3v	:	:	HEA	;
	9 0 Ji	16 04		;	HEA	
H. P. C. Marine	וט שנ	16 031	;	:	HEA	:
	, e 05			:	HEA	:
	2 1E 01	:	:	:	IRIS	•

Sufficient evidence of carcinogenicity in humans

Sufficient evidence of carcinogenicity in animals with inadequate or lack of human data. Limited evidence of carcinogenicity in animals and inadequate or lack of human data. Limited evidence of carcinogenicity in humans. A <u>B</u> B ⊃

California Environmental Protection Agency. Integrated Risk Information System. Cal-EPA

Health Effects Advisories. HEA tris

daily milligrams per kilogram. Reference dose. mg/kg-day =

(1) Note: Table 4 was prepared for 1993 ROD and it shows a partial listing of COCs. See Table 2 and Table 10 for other COCs added for Amended ROD. No value.

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Amended 1101) 05/02

Exposure Assessment

The 1989 Endangerment Assessment identified several potential receptors for the WDI site based on then-current land uses:

- Offsite residents inhaling airborne particulates and VOC emissions
- Students inhaling airborne particulates and VOC emissions

The most likely future land use scenario also includes future industrial redevelopment. As a worst-case scenario, the 1989 Endangerment Assessment assumed that the site could be redeveloped for residential land uses. On-site residents were used as a conservative indicator since this is considered a maximum exposure condition. For future land use conditions, the Endangerment Assessment quantitatively evaluated the following receptor and exposure pathways:

- On-site residents contacting soil and ingesting groundwater
- On-site residents inhaling VOC emissions and indoor air

These assumptions are considered conservative since it is anticipated that future land use on-site would be restricted to certain industrial uses. The assumptions are reasonable, however, in light of the proximity of residential land uses to the site.

Estimation of Daily Intakes 5.

EPA estimated both an average exposure and daily intake and a plausible maximum intake for current and future receptors at the site. The average daily intake was estimated by EPA using mean soil, soil gas, and groundwater concentrations as well as average exposure parameters. For plausible maximum intake, EPA used the maximum soil, soil gas, and groundwater concentrations together with upper range estimates for exposure parameters. Table 5 presents the values and calculations used to estimate exposure.

Exposure Point Concentrations 6.

Concentration at the point of human contact is known as exposure point concentration. The 1989 Endangerment Assessment estimated an average and plausible maximum exposure point concentration. For potential exposure to contaminants in soil and groundwater, EPA assumed that the exposure point is at the same collection point (e.g., soil collection point or groundwater monitoring well location). For these media, EPA used the geometric mean of all sampling locations to calculate an average exposure point concentration and maximum detected concentration to calculate the

AROD 061402wpd wpd

TABLE 5

VALUES USED TO CALCULATE CHRONIC DAILY INTAKE (CDI) WASTE DISPOSAL, INC. SUPERFUND SITE

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	AVERAGE CASE	PLAUSIBLE MAXIMUM	INTAKE EQUATION/ MODEL NAME
CURRENT LAND-L	SE SCENARIO	<u>- </u>				
	cs	Chemical Concentration in Soil	mg/kg	Geometric Mean	Maximum	Intake by ingestion (INTi) = CS \times ABS \times IRS \times CV
1	EF	Exposure Frequency	event/week	1	5	
	ED	Exposure Duration	уелга	4	6	Intake by dermal contact (INTd) = CS x ABS x SA x Cv
	BW	Body weight	kg	60	60	
Direct Contact with	IAS	Soil Ingestion Flate	mg/event	100	100	COI = ((INTI + INTIO) x ED x EF) ((BW x AT)
Soil by Trespassers	SA	Exposed Surface Area	cm²	1,400	1,960	
ABS	ABS	Skin Adsorption	unitless	chemical- apacific	chemical-specific	
1	sc	Soil Contact Rate	mg/cm²-day	1 45	2.77	
	AT-C	Averaging Time for Carcinogens	days	27,375	75	
	AT-N	Averaging Time for Noncarcinogens	days	=ED x 36 5	=ED x 365	
	Cv	Conversion Factor	kg/mg	1E-06	1E-06	
	CA	Chemical Concentration in Air	mg/m³	modeled conc	modeled conc	
EF (adult)	EF (adult)	Exposure Frequency	theys/years	330	330	intake by inhalation (fNTs) = CA \times IR \times EL \times ABS: \times CV
	EL (adult)	Exposure Length	hours/day	24	24	
	ED (adult)	Exposure Duration	years	9	30	CDI = (INTa x ED x EF) (8W x AT)
inhaustion of	BW (adult)	Body Weight	kg	70	70	
Inhalation of Airborns Particulates and Volatiles by	ABS-	Innatation Absorption Fraction	uni9ess	chemical- specific	chemical-specific	
Adult Residents and Students	(R	Inhalation Rate	m³/day	20	20	
	Cv	Conversion Factor	day/hours	0 042	0 042	<u></u>
	EF (student)	Exposure Frequency	days/year	180	180	
	EL (student)	Exposure Length	hours/day	8	10	
	ED (student)	Exposure Duration	years	4	6	
	8W (student)	Body Weight	kg	60	60	
FUTURE LAND-U	SE SCENARIO	<u></u>				
. 5, 5, 12	CS	Chemical Concentration in Soil	mg/kg	geometric mean	mannum	imake by ingestion (INTi) = CS x ABS x IRS x Cv
Direct Contact with	EF (adult)	Exposure Frequency	Gays/year	240	365	
Soit by Onsite Residents	ED (adult)	Exposure Duration	year	9	30	imake by dermal contact (INTd) = CS x ABS x SA x Cv
	Inuos: WB	Body Weight	kg	70	70	



TABLE 5

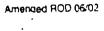
VALUES USED TO CALCULATE CHRONIC DAILY INTAKE (CDI) WASTE DISPOSAL, INC. SUPERFUND SITE (Continued)

Rage 2 of 2

						<u>\</u>
EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	AVERAGE CASE	PLAUSIBLE MAXIMUM	INTAKE EQUATION/ MODEL NAME
EUTURE LAND-US	E SCENARIO (Co	ontinued)				
	IRS (adult)	Soil Ingestion Rate	mg/day	100	100	CDI = ((INTI + INTd) x ED x EFY(BW x AT)
	SA (adult)	Exposed Surface Area	OTT ³	1,400	1,980	
	ABS	Sion Absorption	undess	chemcal- specific	chemical-specific	
	\$C	Soil Contact Rate	mg/cm²-day	1.45	2.77	
	AT-C	Averaging Time for Carcinogens	days	27,375	75	
Direct Contact with	AT-N	Averaging Time for Noncardinogens	days	=ED ± 365	∞ED x 365	
Soil by Onsile Residents	8	Conversion Factor	kg/mg	1E-06	1E-06	
1	EF (child)	Exposure Frequency	GBYS/YGE!	240	365	
į	ED (chid)	Exposure Duration	years	6	6	
	BW (child)	Body Waight	kg	15	15	
	IRS (child)	Soil Ingestron Rate	Mg/day	200	800	
	SA (chid)	Exposed Surface Area	نبئ	1,400	1,400	
	CW	Chemical Concentration in Ground Water	mg/kg	geometric mean	mesomen	
	EF	Exposure Frequency	days/year	365	365	
Ground Water	ED (adult)	Exposure Duristion	years	9	30	CDI = (CW x ing x ED x EF)/ (BW x AT)
	BW (aguit)	Body Weight	kg	70	70	
	ing (adult)	Ground Water Ingestion Rate	L/day	2	2	
Ingestion by Onsite	. AT-C	Averaging Time for Carolrogens	GBY5	27,375	75	
Residents	AT-N	Averaging Time for Noncartinogens	O2YS	≠ED x 365	.ED ± 365	
		Conversion Factor	i.g/mg	1E-06	1E-06	
	Cv			 	4	,
ļ	ED (child)	Exposure Dureson	year	2	 	
,	BW (child)	Body Weight	kg	10	10	
	ing (child)	Ground Weser Ingestion Rate	Uday	1	<u> </u>	
	CA	Chemical Concentration in Ac	mg/m³	modeled conc	modered conc	10 CC - 19 - 51
Inhalation of Contaminants in	EF	Exposure Frequency	deys/yes/	365	365	Intake by inhalation (INTe) = CS x IR x Et ABS: x Cv
Indoor Air by Onsite Residents	EL	Exposure Langth	hourstley	24	24	<u> </u>
,	ABS	Inheleson Absorbson Fraction	undets	chemical- specific	chemical-specific	
	0	Conversion Factor	davhours	0.042	0 042	
,	ED (adult)	Exposure Ourstion	years	9	30	CDI = (INTe x ED x EFY (BW x AT)
Innalation of	BW (sout)	Body Weight	ho	70	70	
Contaminants in Indoor Air by Onsite	IR (adult)	Inhelgion Rale	m³/day	20	20	
Residents	ED (cr⊌d)	Exposure Ourstion	years	7	4	
	BW (chid)	Body Wegin	kg	10	10	<u> </u>
	IR (child)	Inhalation Rate	m [†] /Gay	5	5	94-256/Rpty/SFS (7/14/0

dairy millionams per square certor

days per year hours per day ncurudas miraes da shouts cubic meter per day day per hours





plausible maximum exposure point concentration. EPA assumed that trespassers might be exposed to surface soils. For this scenario, EPA used 34 surface samples collected during the remedial investigation (RI) to estimate exposure point concentrations. Under the future land use scenario, the Endangerment Assessment assumed that future residents (a conservative assumption) might be exposed to contaminants present in the upper 20 feet of soil as a result of grading and other construction activities. For this scenario, EPA estimated exposure point concentrations using soil samples collected from 0 to 20 feet bgs.

Contaminants in soil and soil gas at the site may be transported to a downwind receptor. For the potential exposure to air, modeling was utilized to estimate exposure point concentrations. The Endangerment Assessment used a Gaussian dispersion model (Turner, 1970) to measure exposure point concentrations in ambient air at locations 0.1, 0.5, and 1.0 kilometers downwind of the site. The risk assessment also used a one-compartment indoor air model (for above-ground structures) along with soil gas results to estimate indoor air concentrations for future residents living on-site.

7. Risk Characterization

To estimate carcinogenic (cancer) risks, the Chronic Daily Intakes (CDIs) for each exposure pathway are multiplied by SFs. The resulting risk estimate represents the incremental probability of an individual developing cancer over a lifetime as a result of exposure to the carcinogen. Table 3 presents the cancer risk estimates for current and future land-use under several different exposure scenarios.

To estimate noncarcinogenic risks, the CDI for each exposure pathway is divided by the RfD to obtain a hazard quotient. The sum of all hazard quotients for each COC is the hazard index (HI). The RfD is an estimate of daily exposure concentration that will not result in adverse effects in the most sensitive of individuals during a lifetime. When the estimated CDI exceeds the RfD, there may be a concern regarding potential adverse effects. Table 3 presents the HI estimates for each exposure pathway.

The risks estimated in the Endangerment Assessment include some degree of uncertainty as a result of assumptions made regarding exposure and toxicity. When estimating plausible maximum exposure point concentrations, for example, the Endangerment Assessment assumed that individuals would be exposed to maximum soil or groundwater concentrations for every COC (a conservative assumption). In addition, the Endangerment Assessment assumed that contaminant concentrations will remain constant over time with no degradation. Toxicity factors (RfDs and slope factors) are also likely to provide conservative estimates of risk to ensure protectiveness.

Both current and future risks were estimated in the Endangerment Assessment pursuant to the National Contingency Plan (NCP) and were considered to evaluate

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whether or not the site presents an "unacceptable risk" to human health and the environment. Acceptable risk is defined as when the cumulative carcinogenic risk to a receptor based on a "reasonable maximum exposure" (RME) is less than 104 (e.g. 1 10,000 chances of cancer) and a noncarcinogenic hazard index (HI) is less than 1.

Table 3 presents current site risk exposure estimates, current land use risks based on a reasonable maximum exposure (RME) for exposure scenarios that fall below 10⁻⁴ cancer risk and a noncarcinogenic HI of less than 1. Therefore EPA considers the current risk exposure estimates to be "acceptable," except in the case of the trespassers scenario, where the HI exceeds 1. However, for the future land use scenarios (using a conservative assumption of on-site residential land use), the site specific risk estimates exceed the 104 cancer risk for three future residential exposure pathways: (1) direct contact with soils: (2) ingestion of groundwater; and (3) inhalation of volatile chemicals in indoor air. Based on the above criteria, these risk exposures under a residential scenario are considered "unacceptable" by EPA. Generally, where site risks to an individual based on RME exposure assumptions for either current or future land use exceed 10⁴ lifetime excess cancer risk, action under CERCLA is warranted.

It should be noted that the potential inhalation risks under a future commercial/industrial scenario, as is presently anticipated, would be less than those determined under the residential scenario assumed in the Endangerment Assessment (but still above 104 to 10⁻⁶ cancer risk range). For example, the only differences between an adult residential exposure (assumed in the risk assessment) and a commercial/industrial worker exposure (using EPA's default assumptions) is the exposure frequency (365 days per year for a resident versus 250 days per year for a worker) and exposure duration (30 years for a resident versus 25 years for a worker). The combined difference between these receptors is 1.75 (i.e. 365/250 multiplied by 30/25). This difference is not great and would still yield a risk above the risk range for workers (the residential risk of 6 x 10⁻⁴ divided by 1.75 yields a worker risk of 3 x 10⁻⁴). A similar analysis would apply for direct contact exposures on-site. Accordingly, for a commercial/industrial scenario, remedial action is warranted under CERCLA.

Ecological Risk Assessment 8.

While the Endangerment Assessment also included a qualitative ecological assessment predicting that site contamination may impact wildlife, the site is located in an industrial area and does not represent a significant habitat for wildlife.

A biological endangerment assessment of the site was conducted during the fall of 1998 (Frank Hovore & Associates, September and October 1998). The possibility of native wildlife occupying and persisting at the site was investigated. Particular emphasis was given to determination of the presence or absence of the native gray fox (Urocyon cinereoargenteus), western burrowing owl (Athene cunicularia hypugea), San

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Diego horned lizard (Phrynosoma coronatum blainvillii), and other disturbance-tolerant or substrate generalist sensitive taxa on the site. The assessment included field survey observations made along site transects walked 5-10 meters apart around the entire site. from corner to corner and along all boundaries. The assessment determined that there is no evidence of agency-listed endangered, threatened, or otherwise sensitive or protected species within the site boundaries and that the likelihood of any such species occupying the site is low given its history of surface disturbance, recent remedial activities, and effects of human intrusion from adjacent development.

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Circumstances Prompting the Revised Remedy H.

Additional soil and soil gas investigations on the perimeter parcels were performed by WDIG and EPA in 1995. Based on these investigations, EPA suspended the design of the original remedy in 1996. During the period from 1997 to 2000, EPA directed the WDIG to perform investigations to further characterize waste in the perimeter parcels. This included delineation of the nature and extent of soil gas, liquids present in the reservoir (in Area 2), and groundwater contamination. Identified soil gas COCs included the human carcinogens benzene and vinyl chloride, and methane. A quarterly in-business air monitoring program was initiated for selected on-site businesses.

Remedial Action Objectives i.

The 1993 ROD did not explicitly identify Remedial Action Objectives (RAOs) because they were not included in the ROD guidance at that time. The implicit RAOs for the site, however, have not been revised or affected. The RAOs for the revised remedy are to:

- Protect human health and the environment by preventing exposure to buried wastes and contaminated soils.
- Protect current and future on-site and off-site receptors from exposure to soil gases;
- Prevent human exposure, from direct contact, consumption, and other uses, to site liquids exceeding state and federal standards;
- Prevent contribution of site liquids to exceedances of state and federal groundwater standards, and
- Prevent human exposure to groundwater that exceeds state and federal standards due to site-related contaminants

These objectives are based on the present use of the site, the anticipated potential for

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future use of the site for industrial purposes, and the potential for groundwater in the area to be used as a public water supply.

J. Description of Alternatives

EPA has selected the revised remedy after evaluation of multiple alternatives, including the original remedy selected in the 1993 ROD and seven alternatives that have been evaluated as part of the Supplemental Feasibility Study completed in May 2001.

1. Original Remedy from 1993 Record of Decision

The original remedy as presented in the 1993 ROD consisted of the following major components:

- Excavation of wastes in designated areas to achieve cleanup standards;
- Reconsolidation of excavated materials beneath a RCRA-equivalent cap to be installed over the reservoir (Area 2);
- Installation of a RCRA-equivalent cap over the reservoir (in Area 2) and designated areas (Area 2 and some minor portions of the perimeter), covering approximately 17 acres of the site;
- Placement of perforated piping for the passive extraction and flaring of subsurface gases throughout the area to be capped;
- Monitoring of gases and installation of an active extraction and treatment system, if required to address constituents and volume of gases; and
- Implementation of institutional controls to ensure that future use of the site is compatible with the remedy goals, maintain the integrity of the cap, restrict parcels with residual contamination from activities that could lead to exposure to contaminated soils, and prohibit shallow groundwater use.

2. Alternatives Evaluated for Revised Remedy

EPA identified, reviewed, and evaluated a total of seven alternatives as part of the Supplemental Feasibility Study that was completed in May, 2001. The alternatives included components for containment of buried wastes with capping systems, gas collection, extraction, and gas migration control systems, as well as institutional controls and long-term O&M. Alternatives that involved treatment or excavation and offsite disposal of buried wastes were not included in detailed evaluations because they were too costly, not practical, and posed significant potential health risks to the community

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due to the high volume of trucks hauling wastes from the site over a period of years. Alternatives 1, 2, 3, 4, and 5 incorporated groundwater monitoring to address current groundwater conditions at the site. Alternatives 6 and 7 were identified in the Supplemental Feasibility Study as stand-alone groundwater alternatives for evaluation as required by the NCP. However, these two alternatives were not retained as separate remediation alternatives since they did not address containment of buried wastes, contaminated soils, soil gas, or liquids. The list of alternatives subjected to detailed evaluation for the revised remedy in the Supplemental Feasibility Study is:

Alternative #1:

NO FURTHER ACTION

The no further action alternative is required by the NCP as a basis of comparison for other alternatives. Under this alternative, only limited actions (i.e., fencing) would be taken to restrict access to the site or reduce the potential for exposure. This alternative would include continuation of the current site groundwater monitoring program.

Alternative #2:

RCRA-EQUIVALENT CAP OVER RESERVOIR (IN AREA 2) AND MONOFILL (SOIL/ASPHALT/CONCRETE) CAP OVER PORTIONS OF AREAS 1, 2, 4, 5, 6, 7, AND 8; RESERVOIR LEACHATE COLLECTION POINTS; SOIL GAS ENGINEERING CONTROLS; GROUNDWATER AND SOIL VAPOR MONITORING; AND INSTITUTIONAL CONTROLS [This alternative was ultimately selected by EPA as the basis for the Revised Remedy.]

This alternative incorporates a RCRA-equivalent cap to provide containment for the reservoir area (Area 2) and a monofill cap over buried waste outside the reservoir area installed in Areas 1, 2, 4, 5, 6, 7, and 8. The monofill cap would consist of graded soil, asphalt, and concrete in designated areas. A gas collection system would be installed under the RCRA-equivalent cap. Extracted gases from the reservoir area would be treated by an appropriate technology (e.g., granular activated carbon [GAC]). Passive bioventing wells would be installed along portions of the perimeter of buried waste near existing buildings to mitigate the formation of methane gas and enhance the degradation of organic materials. Valves on these wells would open during high barometric conditions to allow oxygen in and close during low barometric conditions to retain oxygen, thus "pumping" atmospheric air into the subsurface formation and driving it towards conditions that maximize aerobic biodegradation. Leachate Collection Points (LCPs) would be installed to monitor for, collect and remove "free liquids" within.

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buried waste. Soil gas engineering controls would be installed within existing structures; where engineering controls are not technically feasible, buildings would be removed. The decision to provide engineering controls or remove any particular building would be made during design. Engineering controls may consist of sealing penetrations in floor slabs, installation of active or passive venting systems below floor slabs, installation of positive pressure HVAC systems and/or physical barriers, and/or ventilation improvements. Institutional Controls (ICs) would be implemented to restrict current and future land uses at the site, protect the integrity of the cap and soil gas control systems, restrict future use of shallow groundwater, and ensure the effectiveness of the remedy components. Groundwater, soil vapor, and in-business air quality monitoring would be conducted. This alternative anticipates, and would be compatible with, site redevelopment at some point in the future, for industrial land uses. This alternative would provide for implementation of remediation facilities as the first step; redevelopment of the site could follow as a second, but separate step, by other parties.

Alternative #3:

RCRA-EQUIVALENT CAP OVER RESERVOIR (IN AREA 2); REDEVELOPMENT OF AREAS 1, 2 (OUTSIDE OF RESERVOIR), 3, 4, 5, 6, 7, AND 8; RESERVOIR LEACHATE COLLECTION POINTS; SOIL GAS ENGINEERING CONTROLS; GROUNDWATER AND SOIL VAPOR MONITORING; AND INSTITUTIONAL CONTROLS

This alternative incorporates a RCRA-equivalent cap to provide containment for the reservoir area (Area 2). Outside the reservoir (Areas 2, 3, 4, 5, 6, 7, and 8) the property would be redeveloped by the City of Santa Fe Springs or private entities. Prior to redevelopment, the portions of these areas overlying buried waste would be covered with a monofill (soil) cap, having a minimum thickness of 2 feet. Pavements and foundations of the new developments would serve to enhance the performance of the. monofill cap. A gas collection system would be installed under the RCRA-equivalent cap and operated as an active system for the first year and as a passive system thereafter. Collected gases from the reservoir area would be treated by an appropriate technology (e.g., GAC). Passive bioventing wells would be installed along portions of the perimeter of buried waste near existing buildings to mitigate the formation of metitane gas and enhance the degradation of organic materials. Valves on these wells would open during high barometric conditions to allow oxygen in and close during low

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barometric conditions to retain oxygen, thus "pumping" atmospheric air into the subsurface formation and driving it towards conditions that maximize aerobic biodegradation. LCPs would be installed to monitor, collect, and remove "free liquids" within buried waste. Some existing buildings in Areas 1, 2, 5, and 8 that are constructed over buried wastes would be demolished to permit construction of the soil monofill cap. ICs would be implemented to restrict current and future land uses at the site, protect the integrity of the cap and soil gas control systems, restrict future use of shallow groundwater, and ensure the effectiveness of the remedy components. Groundwater, soil vapor, and in-business air quality monitoring would be conducted. Industrial redevelopment would be incorporated and integrated into the remediation of the site.

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Alternative #4:

RCRA-EQUIVALENT CAP OVER RESERVOIR (IN AREA 2) AND MONOFILL CAP OVER PORTIONS OF AREAS 2, 4, 5, AND 7; EXCAVATION/CONSOLIDATION OF BURIED WASTE FROM AREAS 1, 6 AND 8; REMOVAL OF BUILDINGS UNDERLAIN BY BURIED WASTE IN AREAS 1 AND 8; RESERVOIR LEACHATE COLLECTION POINTS; SOIL GAS ENGINEERING CONTROLS; GROUNDWATER AND SOIL VAPOR MONITORING; AND INSTITUTIONAL CONTROLS

This alternative incorporates a RCRA-equivalent cap to provide containment for the reservoir area (Area 2). Waste from Areas 1, 6, and 8 would be excavated and reconsolidated underneath the RCRA-equivalent cap in Area 2. Monofill capping consisting of graded soil, asphalt, and concrete would be installed in Areas 2, 4, 5, and 7. A gas collection system would be installed under the RCRA-equivalent cap. The system would be operated initially as an active system, and eventually, with anticipated gas volume reductions, as a passive system. Collected gases from the reservoir area would be treated by an appropriate technology (e.g., GAC). Passive bioventing wells would be installed along portions of the perimeter of buried waste near existing buildings to mitigate the formation of methane gas and enhance the degradation of organic materials. Valves on these wells would open during high barometric conditions to allow oxygen in and close during low barometric conditions to retain oxygen, thus "pumping" atmospheric air into the subsurface formation and driving it towards conditions that maximize aerobic biodegradation. LCPs would be installed to collect and remove "nee liquids" within buried waste. Soil gas engineering controls would be installed within existing structures underlain by waste. Engineering controls might consist of sealing

penetrations in floor slabs, installation of active or passive venting systems below floor slabs, installation of positive pressure HVAC systems and/or physical barriers, and/or ventilation improvements ICs would be implemented to restrict current and future land uses at the site, protect the integrity of the cap and environmental control systems, restrict future use of shallow groundwater, and ensure the effectiveness of the remedy. Groundwater, soil vapor, and inbusiness air quality monitoring would be conducted.

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Alternative #5:

RCRA-EQUIVALENT CAP OVER AREA 2 INCLUDING THE RESERVOIR (IN AREA 2); EXCAVATION/RECONSOLIDATION OF BURIED WASTE FROM AREAS 1, 4, 5, 6, 7, and 8; RESERVOIR LEACHATE COLLECTION POINTS; SOIL GAS ENGINEERING CONTROLS; GROUNDWATER AND SOIL VAPOR MONITORING; AND INSTITUTIONAL CONTROLS

This alternative incorporates a RCRA-equivalent cap to provide containment for the reservoir area (Area 2). Waste from Areas 1, 4, 5, 6, 7, and 8 would be excavated and reconsolidated underneath the RCRA-equivalent cap in the southwestern half of Area 2. Buildings in Areas 1, 5, and 8 would be demolished. A gas collection system would be installed under the RCRA-equivalent cap. Collected gases from the reservoir area would be treated by an appropriate technology (e.g., GAC). In addition, passive bioventing wells would be installed along portions of the perimeter of buried waste near existing buildings to mitigate the formation of methane gas and enhance the degradation of organic materials. Valves on these wells would open during high barometric conditions to allow oxygen in and close during low barometric conditions to retain oxygen, thus "pumping" atmospheric air into the subsurface formation and driving it towards conditions that maximize aerobic biodegradation. LCPs would be installed to collect and remove "free liquids" within buried waste. Soil gas engineering controls would be installed for new developments in areas underlain by waste material. ICs would be implemented to restrict current and future land uses at the site, protect the integrity of the cap and environmental control systems, restrict future use of shallow groundwater, and ensure the effectiveness of the remedy components. Groundwater, soil vapor, and in-business air quality. monitoring would be conducted.

Alternative #6.

GROUNDWATER MUNITORING

EPA included this alternative to address groundwater monitoring as

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a separate alternative. This alternative represents the continuation of current groundwater monitoring programs and is considered appropriate for the current groundwater conditions at the site. Although MCL exceedances have not been demonstrated to be attributed to the site, the NCP requires an evaluation of the contamination.

Alternative #7:

GROUNDWATER EXTRACTION AND TREATMENT

This alternative addresses groundwater only and consists of extraction and treatment of groundwater. Alternative #7 was included in the Supplemental Feasibility Study in case current groundwater conditions at the site change in the future. The alternative would include the installation of groundwater extraction wells located in the portion of the site west of the reservoir (in Area 2). The extraction wells would be placed in the interior of the site to create an inward hydraulic gradient and capture contaminated groundwater before it could migrate offsite. Extracted groundwater would then be treated and reinjected through injection wells located on the western site boundary to create a groundwater boundary on the downgradient border of the site.

Comparative Analysis of Alternatives K.

Comparison of Alternatives for Revised Remedy 1.

EPA promulgated regulations in the NCP that establish a framework of nine evaluation criteria for selection of a preferred remedial alternative. EPA has reviewed and compared the alternatives identified in the Supplemental Feasibility Study with respect to the CERCLA nine evaluation criteria. The nine criteria are:

- Overall Protection of Human Health and the Environment
- Compliance with Applicable, or Relevant and Appropriate Requirements (ARARs)
- Long-term Effectiveness
- Reduction of Toxicity, Mobility, or Volume Through Treatment
- Short-term Effectiveness
- Implementability
- Cost
- State Acceptance
- Community Acceptance

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Overall Protection of Human Health and the Environment

Overall protection of human health and the environment addresses whether each alternative provides adequate protection of human health and the environment and describes how risks through each exposure pathway are eliminated, reduced, or controlled, through treatment, engineering controls, and institutional controls.

With the exception of Alternative 1, the No Further Action Alternative, all alternatives are considered to be protective of human health and the environment. They would protect future on-site populations as well as the nearby community. The use of RCRA-equivalent caps and engineered capping systems will provide protection against exposure to wastes, contaminated soils, liquids, and subsurface gases. Alternative 5 would provide the greatest level of long-term protection due to extensive excavation in designated perimeter areas and reconsolidation of waste under the RCRA-equivalent cap in the reservoir area.

Compliance with ARARs b.

Section 121(d) of CERCLA and NCP §300.430(f)(1)(ii)B) require that remedial actions at CERCLA sites at least attain legally applicable or relevant and appropriate federal and state requirements, standards, criteria, and limitations which are collectively referred to as "ARARs", unless such ARARs are waived under CERCLA section 121(d)(4).

Applicable requirements are those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance found at a CERCLA site. Only those state standards that are identified by a state in a timely manner and that are more stringent than federal requirements may be applicable. Relevant and appropriate requirements are those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal - environmental or state environmental or facility siting laws that, while not "applicable" to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a CERCLA site address problems or situations sufficiently similar to those encountered at the CERCLA site that their use is wellsuited to the particular site. Only those state standards that are identified by a state in a timely manner and that are more stringent than federal requirements may be relevant and appropriate.

Several ARARs, although generally applicable or relevant and appropriate to

remedial actions, do not apply universally to all alternatives. For example, ARARs pertaining to groundwater cleanup remedial actions while applying to Alternatives 6 and 7, do not apply to Alternative 2 since the activities regulated by such ARARs are not part of Alternative 2.

Additionally, all alternatives, except Alternative 1, have common ARARs

Additionally, all alternatives, except Alternative 1, have common ARARs pertaining to design and construction of landfill covers, gas migration control, as wells as groundwater monitoring.

All five alternatives except Alternative 1, the No Further Action Alternative, would comply with their respective federal, state, and local requirements (ARARs).

Long-term Effectiveness and Permanence C.

Long-term effectiveness and permanence refers to expected residual risk and the ability of the remedy to maintain reliable protection of human health and the environment over time, once cleanup levels have been achieved. This criterion includes consideration of residual risk that will remain on-site following remediation and the adequacy and reliability of controls.

With the exception of Alternative 1, the No Further Action alternative, all alternatives would provide long-term effectiveness. Alternative 5 would provide the greatest level of long-term effectiveness due to extensive excavation and reconsolidation of waste resulting in smaller capping areas and lower long-term O&M requirements.

Reduction of Toxicity, Mobility, or Volume Through Treatment d.

Reduction of toxicity, mobility, or volume through treatment refers to the anticipated performance of the treatment technologies that may be included as part of the remedy.

With the exception of Alternative 1, the No Further Action alternative, all alternatives would reduce the mobility of contamination through use of containment (capping systems), liquids and gas collection and extraction, -engineering controls, monitoring, and institutional controls. Alternative 5 would provide the greatest level of long-term reduction of mobility through excavation and reconsolidation of waste under a RCRA-equivalent cap. Alternatives 2, 3, 4, and 5 provide treatment of gases that are extracted from beneath the RCRAequivalent cap for the reservoir in Area 2. In addition, reservoir liquids as well as other wastes generated from implementation of the remedy will be collected, treated as necessary, and disposed of in accordance with ARARs.

e. Short-term Effectiveness

Short-term effectiveness addresses the period of time needed to implement the remedy and any adverse impacts that may be posed to workers, the community and the environment during construction and operation of the remedy until cleanup levels are achieved.

Alternative 1 would result in continued site risks due to no further action. Under Alternatives 2 and 3, although wastes would be contained by RCRA-equivalent cap and engineered capping systems, minimal short-term risks would result due to the wastes remaining in place. Alternative 4 would result in increased short-term site risks due to potential exposures during excavation and reconsolidation of waste. Alternative 5 would lead to the greatest short-term risks due to exposures during increased excavation and reconsolidation of waste under RCRA-equivalent and engineered capping systems.

f. <u>Implementability</u>

Implementability addresses the technical and administrative feasibility of a remedy from design through construction and operation. Factors such as availability of services and materials, administrative feasibility, and coordination with other governmental entities are also considered.

All alternatives are implementable. However, some face more challenges than others. Alternative 1 is the most readily implementable, but provides limited protectiveness. Alternative 2 is readily implementable, and relies upon readily available and proven capping and containment technologies. Implementation of Alternative 2 will provide for City of Santa Fe Springs reviews during the remedial design process. In addition, to the maximum extent practicable, remedial design by the WDIG will seek to accommodate redevelopment grading and layout alternatives that are being evaluated by the City as part of its WDI site redevelopment master planning. Alternative 3 is implementable in terms of undertaking the capping components of the remedy, but would face significant challenges in incorporating redevelopment plans directly into the remedy. Concurrent implementation of the capping and redevelopment would require substantial delays in the remedy to allow time for the City to finalize its redevelopment plans, identify a developer, enter into development agreements, work with existing landowners whose businesses could be potentially relocated, and mobilize for redevelopment. Alternatives 4 and 5 face implementation difficulties due to excavation and transportation of relatively large volumes of waste materials. Alternative 5 has the greatest implementation challenge due to the excavation of the largest quantity of waste. Alternatives 2 through 5 might face same challenges with implementing institutional controls, but the challenges are the same for all of the alternatives, and can most likely be surmounted.

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Those challenges are due to the large number of parcels of property at the site and the lack of certainty regarding possible future land disposition and land use requirements.

Cost Effectiveness q.

Cost refers to the total net present worth costs associated with capital expenditures required for the remedy, as well as the annualized costs associated with O&M. These estimates incorporate 30 years of O&M for comparison purposes.

Table 6: Estimated Cos	sts for Remedial Alternatives *
Alternative	Estimated Cost (NPV)
Alternative 1 (includes monitoring)	\$2,906,000
Alternative 2	\$7,830,000 **
Alternative 3	\$7,396,000 ***
Alternative 4	\$11,258,000
Alternative 5	\$13,237,000

May 2001 Supplemental Feasibility Study; estimates are order-of-magnitude engineering cost estimates that are expected to be within +50 to -30 percent of the actual project cost.

There is significant variation in the estimated costs associated with the five alternatives, ranging between approximately \$2,906,000 for Alternative 1 (no further action) and \$13,237,000 for Alternative 5 (containment plus extensive waste excavation/reconsolidation).

Alternatives 2 and 3 are considered to be the most cost-effective in terms of providing long-term protectiveness of public health and the environment and achieving the remedial objectives for the site. Alternatives 2 and 3 provide - overall long-term protectiveness and minimize the risks associated with excavation and reconsolidation of on-site wastes.

h. State Acceptance

With the exception of Alternative 1, all alternatives were considered generally acceptable by the State. Concerns were raised regarding potential delays and challenges in the coordination of redevelopment activities integral with the remediation involved under Alternative 3. Concerns were also raised regarding

^{**} Based on minor revisions to the revised remedy, the cost estimate shown in the Supplemental Feasibility study has been increased from \$7,542,000 to \$7,830,000. See Section L below.

^{***} Exclusive of relocation and redevelopment-related costs.

the short-term risks associated with significant excavation and reconsolidation of waste under Alternatives 4 and 5. The State has provided comment on planning. and conceptual design of alternative systems selected for remediation of the site.

Community Acceptance i.

With the exception of Alternative 1, all alternatives were considered generally acceptable by the community. During public meetings, questions were raised about the effectiveness of containment remedies, and the commentors expressed preferences for remediation that would physically remove all waste and contaminated soil from the site. EPA has determined, however, that excavation and removal of all on-site contamination is not technically or economically practicable. The potential for excavation and offsite disposal of all contamination was evaluated in the Supplemental Feasibility Study and the costs were estimated at approximately \$161,000,000. Additionally, excavation and removal of all on-site contamination, or even a substantial portion thereof, would create significant short-term risks associated with exposure to contamination during excavation and offsite transport. Consistent with the NCP and EPA guidance and directives, including Guidance for Conducting Remedial Investigations/Feasibility Studies for CERCLA Municipal Landfill Sites (EPA OSWER Directive 9355.3-11, February 1991), and Presumptive Remedy for CERCLA Municipal Landfill Sites (EPA Directive 9355.0-49FS, September 1993), EPA has selected containment as the presumptive remedy to address the low-level threat from the site.

Table 7 presents a summary of the comparative evaluation of the Alternatives 1 through 5 that were considered in the Supplemental Feasibility Study. Alternative 2 has been selected for the revised remedy because: (1) it provides both short-term and long-term protectiveness of human health and the environment; (2) it complies with ARARs; (3) it is implementable; (4) it is acceptable to the State of California and the local community; and (5) it is cost-effective.

Comparison with Original 1993 ROD-Selected Remedy 2.

EPA has selected Alternative 2 for the revised remedy for the WDI site. While many aspects of the original 1993 ROD remedy are incorporated into the revised remedy, the revised remedy more effectively addresses the risks posed by the site and is more protective of human health and the environment, both in the short- and long-term. Both remedies include construction of a RCRA-equivalent cap over the reservoir section of

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TABLE 7 DETAILED ANALYSIS OF ALTERNATIVES IDENTIFIED IN SUPPLEMENTAL FEASIBILITY STUDY WASTE DISPOSAL, INC. SUPERFUND SITE

				44	Alternative 5
	Alternative 1 No-Action	Alternative 2 (Preferred) RCRA-Equivalent Capping Systems	Alternative 3 RCRA-Equivalent Capping with Site Redevelopment	Alternative 4 RCRA-Equivalent Capping with Partial Waste Excavation	Extensive Excavation with RCRA-Equivalent Capping
Description	Includes monitoring of current conditions only	RCRA-Equivalent Cap over reservor and a monofall cap over all other waste (A) Includes ICs and groundwater monitoring	Same as Alternative 2 but incorporates redevelopment.	Same as Alternative 2, but includes excavation of Areas 1, 6, & 8 and reconsolidation beneath cap	Same as Alternative 2, bu includes excavation of all leaste outside Area 2 and reconsolidation beneath cap
Overall Protectiveness	Not protective Exposes future on- site and off-site receptors to site contaminants	Protects future on-site workers and off-site population:	Protects future on-site workers and off-site population.	Protects future on-site workers and off-site pupulation.	Most protective of future on-site workers and off- site population.
Compliance with State & Federal Requirements	Does not meet landid course requirements	Complies with State and Federal requirements	Comples with State and Federal requirements	Complies with State and Federal requirements.	Complies with State and Federal requirements.
Long-Term Effectiveness	Not effective in containing site containing site containing site	Effective in containing contamination beneath cap	Effective in containing contamination benealth cap	Effective in containing containination beneath cap.	Most effective in containing containing containing to the beneath a RCRA-equivalent cap.
Reduction of Toxicity, Mobility, or Volume	No reduction in mobility of contaminants	Reduces matchly of contaminants under RCRA- equivalent and monoliticate (A)	Reduces mobility of contaminants under RCRA-equivalent and monofall cap (A)	Reduces mobility of contaminants under RCRA-equivalent and monofill cap (A)	Best reduction of mobility through waste consolidation under RCRA-equivalent cap
Snort-Term Effectiveness	Moderate site insidue to no action	Minimum see his associated with cac construction	Minimal site risk associated with cap construction	increased site risk due to excavation of soils during consolidation and cap construction	Graatest site risk due to excavation of soits during consolidation and sap construction
Implementa bility	Implementable since no-action blemative	Implementable but into polental i afficial cocupant recognition haves used to appropriate	Impermentable only if City proceeds with receiveropment. Potensally difficult design and impermentation coordination issues. May show substantial delays for remedy implementation.	Implementable but difficult controlling exposures during construction and with difficult occupant relocation issues	Implementable but difficult controlling exposures during construction, and with difficult occupant relocation issues
Cost (30-)Year) (B), (C), (D)	\$2 906 00C	\$, encoor £	\$ * 396 00C	\$11,258,000	\$13,237,000
State Acceptance	No	Yes	Yes	Yes	Yes
Community	No	Yes	Yes	Yes	Yes

(A) The "monofill cap" is termed "engineered cap" in EPA a new sest remedy for this Amended RCC

(F) Exclusive of relocation/redevelopment revaled stalls

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⁽A) The "monofild cap" is termed "engineered cap" in § 9% § 1% seek seed remede for \$4.000 possion include redevelopment costs.

(C) Reterence May 2001 Supplementar 5 eachiest Seath.

(D) Cost estimates are based on the beer engineer information in equal or engineering design of the remedial atternative. Changes in the cost elements are likely to occur as a result of new information and data ordering the engineering design of the remedial atternative. Major changes may be documented in the form of a memorandum in the Administrative Record tell the engineering cost estimates that are expected to be within 1% it. It is percent of the active project cost.

(E) Since completion of the Supplementar Fascolath, Such and expenses or the Enable Proposed Plan. § PA has made minor revisions to the scope and estimated dost of the selected remedy, from \$7.542,000 to \$7.820.000. See Section 1, or this Amended RCC.

(E) Enclave of relocation/redevelopment revisions.

Area 2; however, the revised remedy does not incorporate extensive excavation of buried wastes outside the reservoir and reconsolidation of waste beneath the cap. In this respect, the revised remedy is more protective in the short-term because it eliminates short-term exposure to wastes that could result from significant excavation and consolidation. Under the revised remedy, buried waste outside the reservoir will be capped in situ using several engineered capping systems, including engineered-graded soils, asphalt, and concrete.

The revised remedy also addresses risks posed by soil gas by including selection of soil gas standards and installation of (a) a gas collection and extraction system under the RCRA-equivalent cap and (b) a passive bioventing system (or active soil vapor extraction systems if bioventing proves ineffective based on soil gas monitoring) in certain areas outside of the reservoir (in Area 2).

The revised remedy adds to the original remedy a liquids collection system to collect leachate and free liquids for offsite treatment and disposal at facilities approved by EPA. The revised remedy also includes implementation of engineering controls, such as physical barriers and ventilation systems, in existing buildings over buried waste. If such controls are not feasible, buildings may have to be demolished and removed. In some cases, in order to install engineering controls, temporary relocation of the building facilities would be necessary. Both the original and the revised remedy provide for ICs to limit exposure to buried wastes and contaminants remaining on-site. Under the revised remedy, the ICs would include easements and environmental restrictions to be recorded on the properties at the site, as well as local ordinances and regulations prohibiting certain uses of the site and groundwater. Finally, the revised remedy provides for long-term groundwater monitoring and long-term monitoring and O&M of all remedy components. Table 8 provides a comparison of the elements of the remedy selected in the 1993 ROD and the revised remedy selected in this Amended ROD.

Table 9 provides a summary comparison in terms of the CERCLA 9-point criteria between the original 1993 remedy and the revised remedy addressed in this Amended ROD.

Revised Remedy

Rationale for the Revised Remedy

Based on the requirements of CERCLA, the detailed analysis of the alternatives using the nine criteria specified in the NCP, and public comments, EPA has selected Alternative 2 as the basis for the revised remedy for the WDI site. Alternative 2 provides both long-term and short-term protectiveness of human health and the environment. The use of RCRA-equivale..t and engineered capping systems will provide containment to minimize the potential for exposure to buried wastes,

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TABLE 8

COMPARISON BETWEEN COMPONENTS OF ORIGINAL 1993 SELECTED REMEDY AND REVISED REMEDY WASTE DISPOSAL, INC. SUPERFUND SITE

		
Activity/Component	1993 Selected Remedy	Revised Remedy
Excevation of Waste & Contaminated Soils	Excavation of waste in designated areas to achieve cleanup standards	
Waste Reconsordation	Reconsolidation of excavated materials (approx 78,000 cy) beneath a RCRA-equivalent cap to be installed over main reservoir in Area 2	
RCRA-Equivalent Cap	Installation of a RCRA-equivalent cap over the reservoir, other designated areas in Area 2, and some minor portions of the perimeter covering approximately 17 acres (750,000 square feet) of the site	Installation of a RCFIA-equivalent cap over reservicir in Ares 2 (approx. 306,000 square feet).
Extraction & Treatment of Subsurface Gases (Area 2)	Placement of perforated piping for passive gas extraction of subsurface gases throughout area to be capped if necessary. Use of taxing and additional treatment if necessary to meet performance standards. Monitoring of gases and, if required, installation of an active extraction system.	Installation of a gas migration control system under a RCRA-equivalent cap. System will be designed to be an active system (mechanical blower-/vacuum driven) and include treatment of gas emissions with Granular Activated Carbon (GAC); conversion to a passive gas (non mecha nical driven) migration control system will be considered after one year depending on gas volumes and gas emission rates. Implemmentation of long-term gas monitoring as part of O&M.
Extraction & Treatment of Subsurface Gases (Outside Area 2)	Monitoring of gases emanating from the site and installation of an active extraction system if required	In desagnated areas outside of reservoir area, instalkation of passive bioverthing systems or active soil vapor extraction (SVE) wells with treatment. Implementation of long-term gas monitoring as part of O&M including monitoring of ambient air in orisite buildings.
Liquids Management Systems		Installization of a liquids collection system under the casp (in Area 2) to collect leachate and free liquids for offsite treatment and disposal at a facility: approved by EPA
Engineered Capping Systems		Installiation of engineered capping systems in Areas 1, 2, 4, 5, 6, 7, 8 (approx 638,000 square left), cultises of reservoir, including engineered gradeod soil, asphalt, and concrete capping systems.
Engineering Controls		implermentation of engineering controls including physical barriers and ventilation systems at and/or within existing and new buildings overlying or adjacent to waste. Demokton and removal of some existing structures may be required where engineering controls are not leasible.
Accessr8: Institutional Controls (ICs)	implementation of ICs to control future land use protect the integrity of the cap, prevent exposure to contaminated soils and prohibit shallow groundwater use.	Implie mentation of approved ICs to control future land: use, protect the integrity of the cap, previent exposure to contaminated soils, and prohibit shallow groundwater use
Groundwater Monitoring		implementation of long-term groundwater morestoring program
Operations and maintenance (O&M)		Impliementation of long-term O&M
ARARS	Hazardous Waste Control Act (Health and Salety Codes Div. 20. Chapter 6.5, State equivalent of RCRA, California Code of Regulations (CCRs) Title 22), Calfornia Imegrated Waste Management Board (CIWMB) CCR Title 14, Ponter-Coughte Water Quality Act, South Coast Air Quality Management Board (SCAOMB) rules.	includes and retines ARARs from 1993 ROD CIW MB CCR Title 14 combined with SWRCB regulations into CCR Title 27, adds groundwater monitoring requirements from CCR's Title 22 and Title 27





TABLE 9

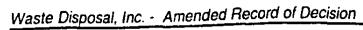
9-POINT CERCLA CRITERIA COMPARISON BETWEEN ORIGINAL 1993 REMEDY AND AMENDED PREFERRED REMEDY WASTE DISPOSAL, INC. SUPERFUND SITE

Description	Originally Selected Remedy	Alternative 2 (Preferred)
	Excavation and reconsolidation of waste outside of Area 2 under a RCRA-equivalent cap in Area 2 with passive soil gas collection and monitoring.	RCRA-Equivalent Cap over reservoir (Area 2) and engineered soil, asphalt, and concrete capping systems over all other waste. Gas migration control, leachate control, soil gas and groundwater monitoring, Q&M, and institutional controls.
Overall Protectiveness	Not protective. Does not address significant previously undetected waste outside Area 2.	Protects future on-site workers and off-site population. Addresses wastes found outside of Area 2.
Compliance with State & Federal Requirements	Does not meet landfill dosure requirements since it did not address all on-site waste.	Complies with state and federal requirements.
Long-Term Effectiveness	Not effective in containing all known site contamination.	Effective in containing contamination beneath caps
Reduction of Taxicity, Mobility, or Volume	Limited reduction of mobility of contaminants due to incomplete containment of all known waste.	Substantially reduces mobility of contaminants under RCRA-equivalent cap and engineered capping systems.
Short-Term Effectiveness	Moderate site risk due to incomplete containment of all known waste; minimal risks because of exposure during constructionvexcavation	Minimal risk of exposure to wastes during cap construction.
Implementability	Uses established capping technologies	Uses established capping, gas control, leachate collection, and monitoring technologies. Potentially difficult relocation issues.
Cost (30-Year)	\$5,170 950"	\$7,830,000
State Acceptance	Yes (1993)	Yes (2002)
Community Acceptance	Not acceptable. Concerns and additional information raised by community and commentors.	Generally acceptable (with mitigation [e.g., time-of- sight barrier] for community impacts)

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Notes.
1993 cost estimate

^{**} Revised from May 2001 Supplemental Feasibility Study. See Section L of this Amended ROD.



contaminated soils, and subsurface gases. The use of liquids and soil gas collection and extraction systems will remove and treat liquids and vapor associated with the site. Because there is no indication that the site has contributed to exceedances of groundwater standards, only monitoring will be undertaken to address groundwater. The containment systems, however, will prevent the infiltration of rainwater which might otherwise contribute to groundwater contamination by flushing contaminants presenting vadose zone soils below the water table. ICs will be implemented to protect the integrity of the capping systems, restrict future land use, restrict potential future groundwater use, and ensure access for ongoing O&M activities.

Alternative 2 complies with ARARs and is implementable using readily available and proven capping technologies. Engineering controls will be installed to protect on-site businesses from soil gas emissions. Alternative 2 is cost-effective, providing a high level of protectiveness at reasonable cost. Alternative 2 also considers current and future land uses and anticipates the likelihood that the WDI site will be targeted for industrial redevelopment by other parties. At the same time, implementation of Alternative 2 is not dependant on successful redevelopment activities as is Alternative 3.

Description of the Revised Remedy 2.

The revised remedy under this Amended ROD addresses the increased lateral extent of waste material and soil gas outside of the reservoir and Area 2, including additional waste containment and gas collection, extraction, and migration control systems beyond those identified in the original ROD. Capping will be implemented through the use of a RCRA-equivalent cap over the reservoir (in Area 2) with the addition of several types of other engineered capping systems beyond the reservoir. Based on additional information obtained since the original 1993 ROD, the extent and volume of waste are sufficiently great that it is not practical or cost-effective to excavate waste from the site perimeter for reconsolidation beneath the cap in Area 2. An analysis of a partial excavation alternative (Alternative 4) was performed in the Supplemental Feasibility Study and evaluated in the Proposed Plan. EPA determined that this excavation alternative was significantly more costly (over \$11 million), posed a number of risks, and would not provide sufficient benefits to warrant the substantial additional costs compared to containment. The revised remedy in the Amended ROD also addresses soil gas collection, treatment, and migration control systems and adopts soil gas performance standards. Gas collection and extraction systems will be installed to remove and treat soil vapor from beneath the capped areas in the reservoir area. Passive gas migration control systems (e.g. bioventing wells) or active gas extraction systems (soil vapor extraction systems) will be installed outside of the reservoir and Area 2. In-business air will be monitored to ensure protectiveness of the gas migration or gas extraction components. A liquids collection system will be installed to collect leachate and free liquids from within the reservoir boundary. Institutional controls will be implemented to prevent exposure to waste and to protect the integrity of the

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Waste Disposal, Inc. - Amended Record of Decision components.

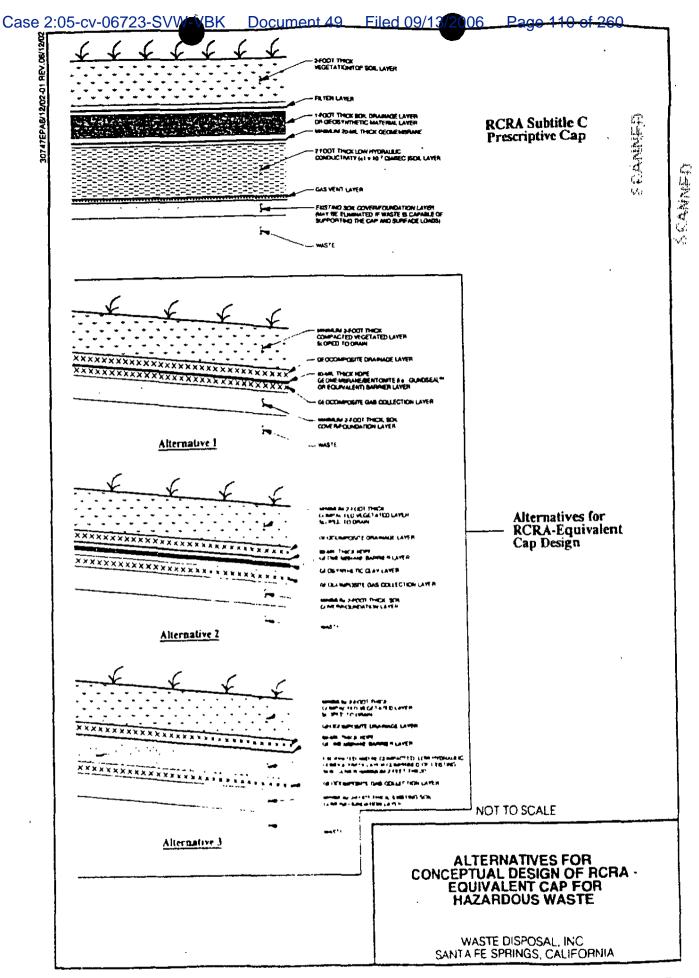
As a final remedy, the revised remedy also includes long-term O&M of all environmental control systems associated with the site to ensure that all systems are functioning effectively and to control access to the site. Long-term monitoring of remedial systems will be conducted to demonstrate that performance standards and ARARs are achieved. Based on these monitoring results, EPA may require implementation of additional remedial systems and corrective actions as required to assure that performance standards and ARARS are sustained. Long-term O&M includes work needed to provide aesthetic mitigation measures to minimize community impacts and ensure that site systems are aesthetically compatible with the surrounding land uses to the maximum extent practicable.

- Components of the Revised Remedy 3.
- RCRA-equivalent Cap (Reservoir Area 2): Capping is EPA's presumptive remedy for landfills. Consistent with the NCP and EPA guidance, including Guidance for Conducting Remedial Investigations/Feasibility Studies for CERCLA Municipal Landfill Sites (EPA OSWER Directive 9355.3-11, February 1991), and Presumptive Remedy for CERCLA Municipal Landfill Sites (EPA Directive 9355.0-49FS, September 1993), the remedy uses containment to address the low-level threat from the site. This remedy incorporates a RCRAequivalent cap to provide containment for the reservoir portion of Area 2. The cap shall be designed to meet RCRA-equivalent engineering and performance standards for hazardous waste containment, and include a composite, multiplelayered barrier that will incorporate an engineered system including a geosynthetic layer (e.g., a geosynthetic clay layer [GCL]) and additional earthen materials designed to prevent direct exposure to buried waste and minimize surface water infiltration.

The proposed RCRA-equivalent cap will cover an estimated 306,000 ft2 area at the WDI site. The equivalent cap design will include generically the following layers, from top to bottom:

- A 2-foot thick vegetative layer (sloped to drain)
- - A drainage layer
 - A multiple-component composite barrier layer
 - A gas collection layer
 - A foundation layer (a minimum of 2 feet thick above buried waste material)

Several alternative designs for the RCRA-equivalent cap are shown in Figure 8. Exact specifications for the RCRA-equivalent cap will be finalized during the remedial design process. Design submittals will include (1) evaluations of



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Figure 8

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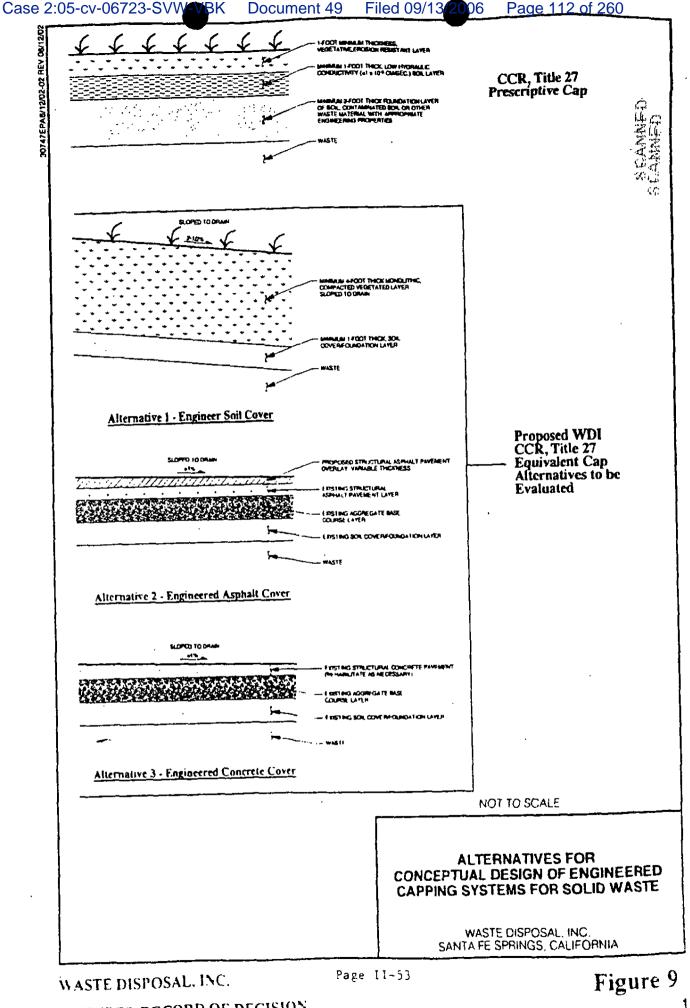
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alternative RCRA-equivalent capping designs, and (2) demonstrations that the proposed capping design will achieve the general performance objectives and specific performance standards for RCRA hazardous waste landfill covers. Monitoring will be conducted to evaluate compliance with cap performance standards and ARARs.

Engineered Capping System: The "engineered capping system" (referred to in S b. the Proposed Plan and the Supplemental Feasibility Study as a "monofill cap"), is a generic term intended to include several different capping configurations. The engineered capping systems may include an evapotranspirative graded soil monofill cover (or "monocover" that uses low conductivity soils and vegetation to control subsurface infiltration), a multi-layered soil cap, asphalt, and/or concrete, that will be utilized to cap different areas of the site. Capping systems for areas outside the reservoir (in Area 2) will be designed to achieve performance standards for RCRA solid waste landfills, including a 1-foot thick barrier layer with a hydraulic conductivity of 10⁻⁶ centimeters per second (cm/sec). Several alternative designs for the RCRA-equivalent caps are shown in Figure 9. The exact design and specifications for the engineered capping systems will be finalized during the remedial design process. Design submittals will include (1) evaluations of alternative capping designs, and (2) demonstrations that the proposed capping designs will achieve the general performance objectives and specific performance standards for RCRA solid waste landfill covers.

The engineered capping system will contain areas underlain by waste materials in Areas 1, 2, 4, 5, 6, 7, and 8. A total of approximately 638,240 square feet (ft²) of area will be covered by these capping systems. The waste materials at the site are presently covered by approximately one to fifteen feet of fill material. This fill material is random in nature ranging from fine grain soil to gravel with construction debris. The fill material may satisfy the performance requirements for a soil monofill cap. The engineered capping systems will be designed to promote drainage and, with suitable vegetation, minimize erosion, accommodate settling and subsidence, and function with a minimum of maintenance.

During design and construction of the engineered capping systems, the existing fill material will be analyzed at a frequency intended to assure that it complies with the appropriate engineering properties and designated performance requirements for hydraulic conductivity, compaction, density, moisture content, and structural loading. Material for the soil monocover will be excavated, reconditioned, replaced, and compacted. Areas containing unsuitable materials will be reconditioned. It waste is encountered, it will be removed and reconsolidated under an engineered cap; waste materials will not be incorporated in any engineered cap. Surfaces will be regraded, where necessary, to improve drainage. The surfaces will also be vegetated with



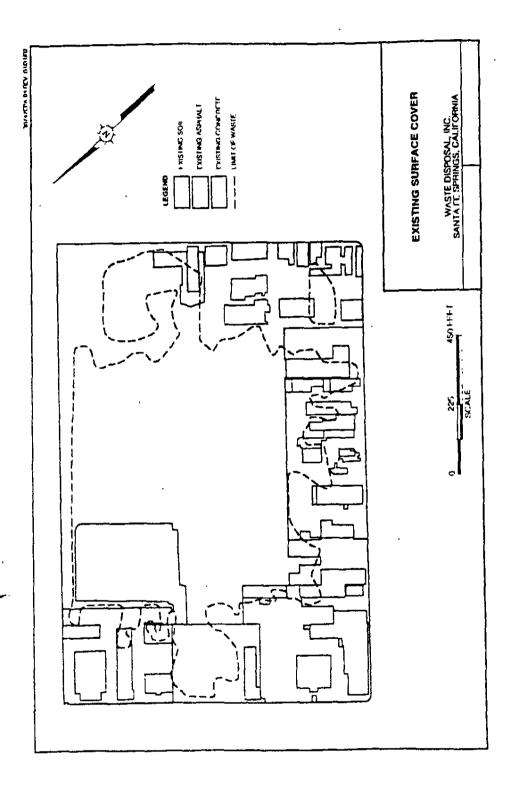
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drought-resistant native plants to provide protection against erosion. If an irrigation system is required, the system will be carefully controlled to prevent over-watering, which could lead to increases in the amount of liquids in contact with the waste. In areas that are currently covered by paving or foundations, the asphalt and/or concrete will be evaluated for serviceability, and specifications for rehabilitation and improvement as necessary to meet the performance standards for engineered capping systems will be finalized during remedial design.

c. Gas Collection & Extraction (Reservoir in Area 2): A soil gas collection and extraction system will be installed beneath the RCRA-equivalent cap that will consist of a geocomposite gas collection layer and a network of collector pipes installed immediately beneath the geomembrane barrier layer. A conceptual layout for the gas collection system is shown on Figure 11. Initially, this gas collection system will be operated as an active system by using a blower to create a negative pressure on the system. The extracted gases from the reservoir area will be treated by an appropriate technology (e.g., Granular Activated Carbon [GAC]) to achieve ARARs for emissions. The engineering details of the system will be determined during remedial design. Monitoring of COCs in gas emissions during O&M will be conducted to demonstrate that the gas control system complies with ARARs.

Following the first year of operation, EPA may determine that the gas volumes and gas emission rates are low enough so that the blower operation could be terminated and the system run as a passive gas collection system. The active extraction system would be shutdown in phases including steps for intermittent (i.e., pulsing) operations, before transition to a passive system would be completed. Implementation of changes to system operations and gas treatment (i.e., transitioning to a passive system, and modification or suspension of gas treatment) will be required to comply with ARARs and Performance Standards and be subject to prior EPA review and approval.

d. <u>Liquids Collection, Treatment, and Disposal</u>: System components will be provided for storage, handling, and treatment (as necessary) of wastes generated from implementation of the revised remedy. The liquids collection system will include LCPs that consist of recovery wells to be installed within the reservoir boundary (in Area 2) to monitor for the existence of free-liquids within the buried waste. The reservoir liquids extracted from the reservoir LCPs, as well as other wastes generated during the revised remedy, will be characterized, stored, treated, and disposed of in accordance with chemical-specific ARARs. Hazardous waste criteria incorporated in the ARARs are applicable to site liquids for the purposes of determining handling and off-site disposal requirements. Off-site disposal will be at facilities approved by EPA. Locations for the LCPs and



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other liquids collection system components will be established during the remedial design.

e. Engineering Controls: Engineering controls will be installed in existing buildings to minimize the potential for exposure to buried wastes and soil gas. Some of the existing buildings are constructed over the buried waste materials. Where technically feasible, these buildings will be provided with engineering controls to prevent the potential build-up of soil gases in their interiors. The engineering controls may consist of sealing penetrations in the floor slabs, installation of passive or active gas venting systems below floor slabs, installation of positive pressure heating, ventilation, and air conditioning (HVAC) improvements, or some combination of these controls to be determined during remedial design. In-business air will continue to be monitored to assure that the soil gas migration control or gas extraction systems (see discussion below in paragraph 3. f. of this section) remain protective of human health and are functioning effectively.

The northwestern portion of the reservoir area is covered with an asphalt parking lot (approximately 3 acres) that is currently used for recreational vehicle storage. EPA expects that this vehicle storage facility will require relocation to allow for construction of the RCRA-equivalent cap and engineered capping systems in Area 2.

Where it is not technically feasible to retrofit the existing structures to install engineering controls, the existing structures shall be demolished and removed, and an engineered cap constructed over the buried waste. The decision concerning whether to provide engineering controls or remove particular existing buildings will be finalized during remedial design. Criteria to be considered in determining which structures may need to be demolished include:

- Structures that are located over waste or contaminated soil;
- Structures that are susceptible to the build-up of soil gas emissions;
- Structures with concrete foundation slabs that are severely cracked or damaged,
- Structures with designs that preclude retrofitting to install engineering controls:
- Structures with internal equipment that precludes installation of engineering controls.
- Structures that would preclude or interfere with construction and O&M of the remedy.

Any permanent or temporary relocations of businesses at the site necessary for implementation of the remedy as rurised in this Amended ROD shall be undertaken in a manner consistent with policies of the Uniform Relocation

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Assistance and Real Property Acquisition Policies Act (42 U.S.C. §§ 4600 et seq) and its implementing regulations (49 CFR §§ 24 et seq). Any persons displaced as a direct result of the remedy as revised in this Amended ROD sha be treated fairly, consistently and equitably.

Access to the WDI site will be controlled through the use of appropriate physical barriers, such as fences and walls, that will be designed to be aesthetically compatible with existing and anticipated future land uses.

Mitigation of site impacts will include construction of a barrier (landscaping in combination with other appropriate structures) that blocks a direct-line-of-sight between the site and the adjacent high school, playing fields, and parking lot. In addition, the barrier will prevent drainage from flowing on to the high school property, and will reduce transmission of noise and limit visual access to the school playing fields and parking lot for enhanced school facility security.

- Gas Migration Control or Additional Gas Extraction Systems (Outside of the f. Reservoir in Area 2): In addition to the gas collection and extraction systems that will be installed under the cap for the reservoir, passive gas migration control or active gas extraction systems will be installed around the perimeter of the engineered capping systems outside of the reservoir. These systems will reduce generation of methane, enhance biodegradation of hydrocarbons, and prevent migration of gases beyond buried waste perimeters and site boundaries. These controls will include passive bioventing wells, soil vapor extraction systems, or other appropriate technology as necessary to comply with performance standards and ARARs for soil gas emissions. A conceptual layout of bioventing well locations is shown on Figure 11. Monitoring for COCs in soil gas during O&M will be conducted to assure that gas extraction or gas migration control systems comply with performance standards (see discussion below in this Section) and ARARs. The revised remedy incorporates in-business air quality monitoring. The layout of vapor monitoring well locations will be developed during remedial design. Location of monitoring points, frequency of sampling, methods of analyses, and procedures for data evaluation and reporting will also be determined during remedial design.
- Institutional Controls: Institutional controls will be implemented in order to ensure the long-term integrity of the remedy and to prevent exposure to waste remaining at the site.

The objectives of institutional controls for the WDI site are:

To provide notification to all potential site users of the presence of hazardous materials and on-site contamination;

- To provide notification to potential site users concerning the presence and location of all remedial systems;
- To expressly prohibit residential land use on any part of the site and limit future uses to certain industrial activities;
- To minimize the potential for exposure of future site users to site related hazardous materials (including waste materials, groundwater, and/or soil gas emissions);
- To protect the integrity of the remedy from any activity that may interfere with the effective O&M of remedial control and mornitoring systems;
- To provide access to the site for appropriate regulatory agencies and responsible parties engaged in approved remedial actions and monitoring activities.

To implement these objectives, EPA anticipates that restrictive covenants will be executed and recorded on all of the properties at the WDI site, as well as any other properties which EPA determines may require institutional controls to achieve the objectives listed above. The restrictive covenants shall run with the land and be enforceable under California law (including California Civil Code Section 1471) against all future property owners and tenants. EPA shall oversee compliance with the use restrictions. The restrictive covenants shall provide for access by EPA and the State, as well as by PRPs conducting the remedial action, and their contractors, for the following purposes:

- 1. Monitoring the remedial action, and monitoring and O&M;
- 2. Verifying any data or information submitted to EPA or the State;
- 3. Conducting investigations relating to contamination at or near the site;
- 4. Obtaining samples;
- 5. Assessing the need for, planning, or implementing additional response actions at or near the site;
- 6. Assessing implementation of quality assurance and quality control practices as defined in the approved Quality Assurance Project Plans;
- 7. Implementing the remedial action, monitoring, and O&M;
- 8. Assessing compliance with the access easements and environmental restrictions; and
- 9. Determining whether the site or other property is being used in a manner that is prohibited or restricted by the environmental restrictions, or that may need to be prohibited or restricted.

The land use restrictions in the restrictive covenants shall include compliance by

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all users of the properties with the following restrictions:

- Placement of warning signs or other posted information shall be allowed and, once posted, no removal or interference with such signs or information shall be permitted.
- 2. Placement of site access controls, such as gates or fencing, shall be allowed and shall not be damaged or circumvented.
- 3. The site or such other property shall not be used in any manner that may interfere with or affect the integrity of the remedial cap or other components of the remedy, as constructed pursuant to this Amended ROD.
- 4. Construction not approved by EPA that impacts any of the remedial capping or other remedy components shall not occur.
- 5. No interference with or alterations to the grading, vegetation and surface water and drainage controls shall be made without the prior written approval of EPA.
- 6. Portions of the site or such other adjacent property underlain by waste materials or in soil gas noncompliance areas shall not be regraded without the prior written approval of EPA.
- 7. Areas of asphalt or concrete pavement shall not be removed or improved without the prior written approval of EPA.
- 8. No penetrations or interferences (including, but not limited to, utility trench excavations, excavations for fence posts, excavations for planting trees or large bushes, foundation excavations, and foundation piles) within the remedial cap or any other areas with remedial controls shall occur without the prior written approval of EPA.
- 9. Deep-rooting plants (plants whose root systems will penetrate more than two feet below ground surface) shall not be planted without the prior written approval of EPA.
- 10. Approval from EPA must be obtained for settings of irrigation controls. Such settings shall not be changed without the prior written approval of EPA.
- 11. Drainage channels and pipes shall not be blocked, rerouted or otherwise interfered with without the prior written approval of the EPA.
- 12. No new openings shall be made in building floor slabs in buildings located over waste materials or over soil gas noncompliance areas without the prior written approval of EPA.
- 13. The integrity of existing and future foundations shall be maintained in areas underlain by waste materials or in soil gas noncompliance areas. All cracks or damage in such foundations shall be reported to EPA and DTSC.
- 14. Indoor gas controls shall not be circumvented.
- 15. Indoor gas sensors or alarms shall not be turned off or interfered with.

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- 16. Soil gas control systems shall not be turned off or interfered with.
- 17. Monitoring points, including but not limited to groundwater monitoring wells, soil gas probes, reservoir (in Area 2) leachate collection wells, soiling gas vents, and survey monuments, shall not be blocked or otherwise obstructed.
- 18. Monitoring wells shall not be opened; nothing shall be placed into the monitoring wells except by authorized personnel permitted to monitor the wells
- 19. Liquids recovery systems, liquids treatment systems, and treated liquids storage facilities shall not be turned off or interfered with.
- 20. Groundwater supply or monitoring wells shall not be constructed without the prior written approval of EPA, and there shall be no extraction of or injection into groundwater on the site.
- 21. Owners of the site or any portion thereof shall disclose all institutional controls to all tenants on the property.
- 22. Owners of the site or any portion thereof shall inform EPA of the identities of all tenants on the property.
- 23. During construction, excavation, or grading of any type, measures shall be taken to ensure that there is no offsite migration of dust, odors or organic vapors. During such activities, appropriate measures shall be taken to protect the health and welfare of on-site personnel and workers and to prevent offsite impacts.
- 24. Prior written approval must be obtained from EPA for all building or site modifications.
- 25. Waste materials shall not be excavated without the prior written approval of and supervision by EPA.
- 26. No new construction shall occur on the site without the prior written approval of EPA.
 - (a) New construction shall be supported by subsurface explorations and analytical laboratory data to characterize the construction area for the possible existence of waste materials.
 - (b) If contaminants are discovered in the construction area, they shall be remediated or buildings and structures must be appropriately designed to protect occupants.
 - (c) Appropriate worker and public health and safety precautions, including but not limited to dust control, safety plans, and other forms of worker protection, must be taken prior to approval of construction.
- 27. Boreholes, foundation piles, or other subsurface penetrations into the reservoir (in Area 2) or any other area of the site which could create conduits allowing wastes to migrate to groundwater shall not be made without the prior written approval of EPA.
- 28. Construction workers shall be provided with appropriate personal

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protective equipment while they are working at the site.

29. Pesticides or herbicides shall not be applied to the capped areas of the site or to areas surrounding monitoring points without the prior written approval of EPA.

30. Use of any septic tanks on the property shall be discontinued and such tanks shall be decommissioned in accordance with local regulations.

31. The site or such other property shall not be used or redeveloped for residential use; use as a hospital, school for people aged 21 and under, or day care center; or other uses by sensitive receptors.

In addition, EPA will work with the City of Santa Fe Springs to ensure that the City's master plan for redevelopment of the site is consistent with the institutional control objectives described in this Amended ROD. EPA may also work with the City of Santa Fe Springs to develop ordinances to prohibit residential use; use as a hospital, school for people aged 21 and under, or day care center; or other uses by sensitive receptors, and to limit activities on the site that have not been approved by EPA.

- h. Long-term Groundwater Monitoring: Long-term groundwater monitoring will be conducted to ensure that the site does not contribute to exceedances of groundwater standards. The primary goal of groundwater monitoring will be to detect, as early as possible, releases or migration of contaminants from WDI sources (e.g., buried reservoir in Area 2, buried waste areas, and soil gas to groundwater). The monitoring program will meet the requirements of a detection monitoring program as specified in State of California regulations for interim status hazardous waste management units or facilities. A groundwater monitoring plan shall be developed that outlines a list of parameters to be sampled and analyzed for, methodology, monitoring frequency, and statistical analyses. Objectives of the long-term groundwater monitoring program include:
 - Establish a detection monitoring program to monitor potential release, leaching, or migration of contaminants from on-site waste sources to groundwater:
 - Comparison of groundwater monitoring data with groundwater MCLs;
 - Collection of groundwater elevation data to monitor and document conditions or changes in groundwater flow and potential contaminant migration; and
 - Maintain a historical record of groundwater quality data to assess the
 performance and effectiver. ss of the soil gas and landfill cover remedial
 actions that will be implemented for site closure.

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i. Long-term O&M: Long-term operations and maintenance (O&M) will be implemented to monitor remedial systems and to ensure that the remedy is functioning effectively. Operations and maintenance will be performed to achieve and sustain ARARs and Performance Standards for all capping systems, leachate and liquids collection and monitoring systems, gas collection and soil gas monitoring systems, groundwater monitoring, engineering controls, irrigation, surface water management and drainage, site access and security, grading, landscaping, use restrictions, and visual impact mitigation.

4. Cleanup and Performance Standards

a. Soil Standards

This Amended ROD does not retain the soil cleanup standards adopted in the 1993 ROD. Since the revised remedy relies on *in-situ* capping of wastes rather than removal, reconsolidation, treatment, or off-site disposal of extensive quantities of buried wastes, EPA determined that soil cleanup standards would not be applicable for implementation of the revised remedy.

b. Soil Gas Performance Standards

Provisional soil gas performance standards were developed by EPA in1999. This Amended ROD adopts those provisional standards as the performance standards for soil gas by using the Region 9 EPA preliminary remediation goals (PRGs) for ambient air (EPA, 2000) and applying an attenuation factor of 100 to account for the dilution of a soil gas contaminant to in-business air. This factor is based on modeling that was performed in EPA's 1989 Final Endangerment Assessment. This value has been compared against literature values; Little et al. (1992) suggests a range of attenuation (0.4 to 0.0004) that could be used for a building at 100 meters distance from a landfill source. As is apparent from this survey, the value assumed for purposes of establishing soil gas performance standards for this Amend ROD talls on the conservative end of this range. Table 10 presents soil gas performance standards for COCs at the WDI site.

The following criteria were used to develop these standards:

- If a chemical is a known carcinogen, the PRG at the 1x10⁻⁶ risk level was multiplied by an attenuation factor of 100;
- If a chemical is a probable carcinogen, the PRG at the 1x10⁻⁵ risk level was multiplied by an attenuation factor of 100;

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Case	2
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		SOIL GAS PERFI WASTE DISPOS	TABLE 10 PERFORMANCE STANDARDS ⁽¹⁾ SPOSAL, INC. SUPERFUND SITE	DARDS(1) UND SITE
CHEMICAL OF CONCERN	2000 EPA AMBIENT AIR PRG ⁽⁴⁾ (ppbv) ⁽²⁾	TOXICOLOGICAL BASIS FOR AMBIENT AIR PRG	SOIL GAS PERFORMANCE STANDARD (ppbv)	RATIONALE FOR THE DEVELOPMENT OF THE SOIL GAS PERFORMANCE STANDARD
1,2-Dichloroethane	0 05	probable carcinogen	20	(PRG at 1E-5 cancer risk level) x (attenuation factor) (3) = 0.2 ppbv x 100
1 1-Dichloroethene	0.01	possible carcinogen	100	1 ppbv x 100
1,2,4.Trimethylbenzene	-	noncarcinogenic	. 20	(PRG at HQ of 0.2) x (attenuation factor)
1.2 Dichloroethene (cis)	6	noncarcinogenic	180	(PRG at HQ of 0.2) x (attenuation factor)
1,2-Dichloroethene (trans)	20	noncarcinogenic	400	(PRG at HQ of 0.2) x (attenuation factor)
1,2-Dichloropropane	0 02	probable carcinogen	20	(PRG at 1E-5 cancer risk level) x (attenuation factor) = 0.2 ppbv x 100⊆
1,3,5-Trimethylbenzene	1	noncarcinogenic	20	(PRG at HQ of 0.2) x (attenuation factor)
1,2-Dibromoethane	0 001	probable carcinogen	1	PRG at 1E-5 cancer risk level) x (attenuation factor) = 0.01 ppbv x 100
1,1,1-Trichloroethane	180	noncarcinogenic	3,600	(PRG at HQ of 0.2) x (attenuation factor)
Carbon Tetrachloride	0.021	probable carcinogen	21	(PRG at 1E-5 cancer risk level) x (attenuation factor) = 0.21 ppbv x 100
Benzene	0,1	known carcinogen	10	(PRG at 1E-6 cancer risk level) x (attenuation factor) = 0.1 ppbv x 100=
Chlorotorm	0.02	probable carcinogen	20	(PRG at 1E-5 cancer risk level) x (attenuation factor) = 0.2 ppbv x 100 €
Ethylbenzene	250	noncarcinogenic	5,000	(PRG at HQ of 0.2) x (attenuation factor)
Methene	;	:	1.25% (near buildings) 5.0% (site perimeter)	1.25% Near Buildings - 25% of Lower Explosive Limit - City of Santa Feb. Springs Ordinance; 27 CCR \$20937 5% Site Perimeter – 27 CCR \$20937
Xylenes	200	noncarcinogenic	4,000	(PRG at HQ of 0.2) x (attenuation factor)
Tetrachloroethene	9.0	probable carcinogen	200	(PRG at 1E-5 cancer risk level) x (attenuation factor) = 5 ppbv x 100 😅
Toluene	100	noncarcinogenic	2,000	(PRG at HQ of 0.2) x (attenuation factor)
Trichloroethene	0.2	probable carcinogen	200	(PRG at 1E-5 cencer risk level) x (attenuation factor) = 2 ppbv x 100 $\frac{N}{\Omega}$
Vinyl chloride	0.1(5)	known carcinogen	10	cancer risk level) x (attenuation factor) = 0.1 ppbv x 100
(1) The provisional soil gas standards is (2) only a parts per billion by volume	The provisional soil gas standards incorporated in the May 2001 Supplemental Feasibility Study have been modified and adopted for this Amended ROD motive, parts per billion by volume	mental Feasibility Sludy have be	en modified and adopted for	this Amended ROD (3) Attenuation factor = 100
Donner of the Amended HOD	. Same as the 1969 FPA Ambient Air PBGs used in the May		2001 Summental Feasibility Study extent for Vind Chinde	(4) Beyland from the 1998 FDA Ambiew at 900 of 000

The provisional soil gas standards incorporated in the May 2001 Supplemental Feasibility Study have been modified and adopted for this Amended ROD

Attenuation factor = 100
Revised from the 1998 EPA Ambient Air PRG of 0.01 ppbv <u>න</u> poby - pans per billion by volume. Reme as the 1998 EPA Ambient Air PRGs used in the May 2007 Supplemental Feasibility Study, except for Vinyl Chtoride E 8 3

- If the chemical is a possible carcinogen, the PRG at the 1x10⁻⁴ risk level
 was multiplied by an attenuation factor of 100;
- If the chemical is a noncarcinogen, the PRG at a hazard quotient of 0.2 was multiplied by an attenuation factor of 100. A hazard quotient of 0.2 is used to take into account exposures to up to five chemicals that are colocated on the site; a hazard quotient of 0.2 is often used by Cal EPA in setting other health-risk based standards such as MCLs for drinking water.

These soil gas performance standards will be applied outdoors in areas near selected buildings and along the perimeter of the site. As part of the revised remedy, gas migration or soil gas extraction including systems for collection, extraction, and treatment of gases (from the reservoir in Area 2 as well as areas outside of the reservoir perimeter) will be implemented and monitored as necessary to attain and sustain these performance standards at near-building locations and at the perimeter of the site. Location of monitoring wells for determination of compliance with these soil gas performance standards will be determined during remedial design.

c. Groundwater Monitoring

The remedy incorporates groundwater monitoring for analyses of the COCs listed in Table 2. Groundwater monitoring will be conducted as part of the revised remedy in order to detect changes in the current groundwater conditions at the site and determine if the site is causing exceedances in groundwater MCLs.

The groundwater monitoring program will include the following elements:

Background wells to monitor and document the quality of groundwater that has not been affected by an on-site release;

Point of Compliance (POC) Wells (downgradient edge of buried wastes, and screened within the uppermost aquifer) to be monitored for detection of potential releases and impacts to groundwater from site-related waste sources;

Near-Source Detection Wells to detect potential site-related releases before impacts are measured at the POC;

<u>Verification Wells or Guard Wells</u> for monitoring downgradient property line wells to ensure that site contaminants (i. present in groundwater) do not migrate off-site and potentially impact private or municipal water supply wells.

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The groundwater monitoring well network will be determined during remedial design.

The groundwater monitoring program will require evaluation and reporting of all sampling data for EPA review. In the event that changed groundwater conditions are detected as a result of releases for the site, EPA may require additional groundwater sampling and the installation of additional monitoring wells.

5. Summary of Estimated Remedy Costs

As reported in the May 2001 Supplemental Feasibility Study, the capital and O&M costs for Alternative 2 were estimated at approximately \$7,542,332. A present worth analysis was performed for each remedial alternative. A discount factor was applied to itemize expenditures for each of the alternatives that occur beyond the base year over the period of analysis. All costs for the alternatives during the period of analysis are related to a common base year. This allows the cost of the final remedial action to be compared on the basis of a single figure representing the amount of money that, if invested in the base year and disbursed as needed, would be sufficient to cover all costs associated with the remedial action and O&M over its planned life.

In conducting the present worth analysis for future costs, assumptions were made regarding the selection of the discount rate and the period of performance. For the WDI site, the discount rate of 3.5 percent was selected based on the difference between the Consumer Price Index (CPI) and the current 30-year long-term bond rate at the time the analysis was conducted. A period of performance of 30 years was adopted in the analysis, based on the minimum 30-year post-closure care requirement for landfill containment systems. It is anticipated, however, that long-term operations and maintenance, environmental monitoring, and periodic costs may extend beyond the minimum 30-year period.

The final cost of the remedy is highly sensitive to the selection of the discount factor due to significant O&M and periodic costs that will be incurred over the period of analysis. In general, a discount rate of 7.0 percent is used to estimate the present value of future costs for Federal facilities, including those under Superfund authority. However, Office of Management and Budget Circular No. A-94 suggests a different discount factor may be applied for sites or projects that meet certain criteria. The criteria include the following:

- Future year expenditures will be high;
- · Costs are sensitive to the discount rate; and
- Cost will continue beyond 30 years.

The net present value of the annual and periodic costs is substantial and is estimated to

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be approximately 50 percent of the total present value of the revised remedy. Thus, the future year expenditures will be high relative to capital costs. Moreover, due to the relatively high level of future year costs, the total net present value of the remedy is sensitive to the discount rate. Finally, it is anticipated that future costs will continue to accrue beyond a 30-year period. Although a planning period of 30 years was applied in the remedy comparative analysis, O&M, environmental monitoring, institutional controls, and other periodic costs are expected to continue to accrue beyond this period. The WDI site, therefore, meets all three of the criteria described in the OMB Circular No. A-94.

Since completion of the Supplemental Feasibility Study and issuance of the Proposed Plan, EPA has made revisions to the estimated cost for implementation of the revised remedy. These revisions are considered necessary based on further predesign evaluation of Alternative 2 and minor revisions of scope to include mitigation for visual and noise impacts to the community. The cost estimate for the revised remedy has been revised from \$7,542,000 to \$7,830,000. The revised cost estimate, based on information provided by the WDIG (January 2002), as approved by EPA, is summarized in Table 11.

6. Changes in Expected Outcomes

Implementation of the revised remedy will result in the following changes in expected outcomes:

- Contaminated soil will be contained on the site utilizing engineered capping systems. Activities for reconsolidation of wastes to any significant degree, and removal of wastes and disposal at off-site facilities are not included in the revised remedy under this Amended ROD. Soil cleanup standards adopted in the 1993 ROD have not been retained for this Amended ROD;
- Soil gas performance standards have been adopted by this Amended ROD;
 remedy components will be constructed, operated and maintained to achieve and sustain performance standards to minimize gas migration from buried waste on the site;
- The revised remedy adds a liquids collection component for the collection of leachate (from the reservoir in Area 2) and other site-related liquids for handling at offsite treatment and disposal facilities;
- This Amended ROD incorporates long-term groundwater monitoring that will detect changes in groundwater quality at the site and ensure that groundwater MCLs are not being exceeded due to WDI waste sources.

TABLE 11

COST ESTIMATE FOR REVISED REMEDY WASTE DISPOSAL, INC. SUPERFUND SITE

Capital Co	,	Quantity	Unit	Unit Cost	Total Cost
Management	Plans				
Will High with	Schedule	1	LS	6820	6,82
	Health and Safety Plan	1	LS	6956	
	Sampling and Analysis Plan		L.S	9722	
	Permits	1	LS	50416	
	NPDES Permits	1	ίS	7485	7,48
	NPDES Permits - O&M	1	LS	5141	
	QAQC Plan		ĹS	9094	9,09
	Traffic Control Plan		LS	2162	
	O&M Plan		LS	15754	15,75
	Procurement	1	LS	16168	16,16
	T TOTAL CONTROL CONTRO				
onstruction		 	 		
OUSUUCION	HO Support	11	мтн	12490	137,39
	Site Admin		мтн	52040	
	Site Mob/Demob		LS	27020	
	Clear and Grub		Acre	1133	
	Close Wells	2960		38	
	Remove Concrete Statis	32398		1.43	
	Break/Refocate Concrete and Bricks		CY	192.21	
		130956		0.24	
	Break Asphall			8 49	
	Install/Remove Silt Fence	4300		12.62	
	Install/Remove Hay Balse	1000			
,	Overexcavate Fill Areas	64797		3 85	
	Leachate Collection Points		EA	1805.25	
	Biovent Wells		EA	1761.12	
	Install Building Control System		EA	28821	
	Repaye Conc Building Control System Trench	1500		8 80	
	Relocate Building Occupants		EA	11000	
	Stormwater Pavement Demo/Resignation		SF	20.10	
	Anchor Trench Perimeter Drain	1885		50 13	
	Storm Drain to Offsite	1560	<u></u>	36.00	
	Storm Drain Catch Basin Inven		EA	4581	
	Geocomposite Gas Collection	300584		0.47	
	Gas Collection System	1920		7 76	
	Install 60 mi HDPE	306355		0.67	
	Install Drain Layer Geocomposite	305355		0 44	
	install Asphall Slum Coal	92552		0 78	
	Install Extraction System		LS	17444	
	Startup System		[LS	408	
	Soil Cover All Areas	77756	CY	11.21	
	Impation System North East Corner Only	3360	LF	11.09	
	Seeding of Graded Areas	1934	Acre	1917	37.0
	Trees/Shrubs North East Comer		LS	2494	
	As-Buits	,	LS	4411	44.1
	Grade RV Parking to Surrounding Grades	1673	CY	3 3	55.2
	Demolish Brothers Burtano		SF	3 5	3 20.2
	Demoish C+E Building		SF	44	
	Install 20 Fence		SILF	29 7	
	Tennant Relocation		2 EA	5000	
	1	 	 		1 - 37
	Sublota:	 	 		3 245 3
		15*			486.7
	Contingency	10%			373.2
	Agency Oversight TOTAL CAPITAL COST	10%	*		4,110.0

Notes:

LS = Lump Sum

MTH = Month

LF = Uneal Feet

SF = Square Feet

CY + Cubic Yard

EA = Each

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TABLE 11 (Continued)

COST ESTIMATE FOR REVISED REMEDY WASTE DISPOSAL, INC. SUPERFUND SITE

Annual Costs of O&M (c		Quantity	Unit	Cost/Unit	Ann O&M	Present Worth
Institutional Controls Monitoring	Outredvi		Year	16,992		312,51
Enforcement Actions (1 per year			Year	10,400	10,400	191,277
Agency Oversight (10% of O&)	d mosts)		Year	18,500	18,500	340,25
Soil Gas Monitoring (Quarterly)			Year	73,132	73,132	1,345,047
Groundwater Monitoring (Quan	(arty)		Year	29,579	29,579	544,011
In-Business Air Monitoring (Ser		1	Year	6,304	6,304	115,94
Reservoir Liquid Sump (300 ga			Year	3,835	3.835	70,53
Stormwater Monitoring (4 samp	iles Der vear)		Year	2,200	2,200	40,46
Biovent Mondonno	<u> </u>	<u> </u>		1		
	nples, semi-annually i		Year	26,450	26,450	25,55
Years 2-30 (25 sa			Year	11,275	11,275	203,35
Soil Gas Control System Bener	arn Res Cap					
First year (12 san			Year	4,620	4,620	4,46
Years 2-30 (4 sar			Year	1.540		27,77
	pe once at 10 years	<u> </u>	Year	75	75	62
	pe once at 20 years		Year	37	37	52
Annual Reports	<u> </u>		Year	10.000	10,000	183,92
Cap over Reservoir			1	1		
Mow grass			Year	495	495	9,10
rodeni control			Visit	2.000	2,000	36,78
Engineered Cap Area 2 w/o Re	Servor	1		`[
Mow grass	<u></u>		1 Year	512	512	9,41
Engineered Cap outside Area	?					
Mow grass			1 Year	249	249	4,58
Replace 20% Engineered AC (Cover every 7.5 years				<u> </u>	
7.5 years			1 Year	8.699		56,5
15 years			1 Year	0.699		
22 5 years			1 Year	8,699		33.73
30 years			1 Year	8,699	8,699	26.00
Replace 20% Engineered Con	crete Coverevery 7.5 years		I			
7 5 years			1 Year	5 02		32 66
15 years			1 Year	5,02		
22 5 years			1 Year	5.02		19,4
30 years			1 Year	5.02	7 5.027	15.0
				<u> </u>		
TOTAL PRESENT WORTH O	F ANNUAL OLU	1	1	_i	1	3,720,0

TOTAL CAPITAL AND PW OF ANNUAL OLV	7,830,000
TOTAL CAPITAL AND THE OF	

Notes Total cost is subject to revision during remerkel design There may be some additional costs associated with temporary or permanent relocation of occupants 2 whose properties will be impacted by the remedial construction, but it cannot be quantified at this time interest rate for NPV carculations (+-15% before tailable inflation) was selected based on the 3 difference between the Consumer Price index (CPI) and the 30 year long-term bonid rate at lime of calculation O&M is expected to be longer than 30 years and information obtained outling annual and 5-year reviews will be used to refere any sern U&M cost estimates

Reference is to WDIG Draft Cost Estimate of 1 in 2002 5

The revised remedy presented in this Amended ROD will be generally compatible with the city's desire to redevelop the site in the future. To the extent that redevelopment will not hinder or interfere with site remediation, the design for the remedy will be prepared so as not to preclude appropriate redevelopment of the site for certain industrial uses. Implementation will provide for reviews by the City of Santa Fe Springs during the remedial design process. In addition, to the maximum extent practicable, remedial design by the WDIG will seek to accommodate redevelopment grading and layout alternatives that we being evaluated by the City as part of its WDI site redevelopment masterplanning.

M. Statutory Determinations

Protection of Human Health and the Environment

The revised remedy selected in this Amended ROD remains protective of human health and the environment through the use of containment systems to reduce the potential for exposure to waste, contaminated soil, and soil gas. This remedy educes the risks of exposure to contaminated soil by using EPA's presumptive remediator landfills; the sources of contamination and contaminated soils will be contained by a RCRA-equivalent cap and associated engineered capping systems in areas overlying buried waste. Liquids and gas collection systems will be used to collect, extract, and treat site liquids and subsurface gases to reduce the levels of exposure. In addition, institutional controls will be implemented to protect the integrity of the remediation to site use and access, restrict groundwater use, and prevent exposure to buried contaminated wastes and soils. Finally, long-term groundwater monitoring will be conducted to ensure the protectiveness of the remedy.

There are no short-term threats from the site that cannot be readily mitigated. Further, no cross media impacts are expected as a result of implementing the remedy.

2. Compliance with Applicable or Relevant and Appropriate Requirements (ARARs)

The revised remedy will attain and sustain ARARs. ARARs identified for the revised remedy and the action to be taken to attain the requirements are listed in Table 12.

3. Cost-Effectiveness

Cost-effectiveness is determined by evaluation of three balancing criteria: (1) long-term effectiveness and permanence; (2) reduction of toxicity, mobility, or volume through treatment; and (3) short-term effectiveness. Overall effectiveness is then compared to estimated remediation costs to ensure that the revised remedy is cost-effective."

The remedy proposed in this Amended ROD enhances the long-term effectiveness of

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the original remedy since it extends the areal limits of the capping systems to contain additional wastes that have been identified since the signature of the original ROD in 1993. This revised remedy also achieves a high level of short-term effectiveness because it minimizes any exposure to wastes during implementation of the remediation. Although this remedy does not employ treatment, mobility of waste is reduced through containment. Because the revised remedy should be highly effective and has a reasonable estimated cost of \$7,830,000, the revised remedy is cost-effective.

4. <u>Utilization of Permanent Solutions and Alternative Treatment Technologies or</u>
Resource Recovery Technologies to the Maximum Extent Practicable

Although treatment of site wastes was evaluated in the feasibility studies, EPA actemined that the alternatives were not practicable. EPA has determined that the remedy described in this Amended ROD represents the maximum extent to which permanent solutions and treatment technologies can be applied in a cost-effective manner for containment of wastes at the WDI site.

5. Preference for Treatment

Containment is EPA's presumptive remedy for landfills. The removal and treatment of all or even a substantial portion of the wastes buried at the WDI site is not technically or economically feasible. In addition, removal and offsite disposal of WDI site wastes and contaminated soils would incur short-term risks. EPA expects that containment, gas collection and removal, liquids removal, and long-term monitoring will be protective of human health and the environment and is implementable. This revised remedy uses containment, monitoring, and institutional controls rather than treatment to address the threats posed by contamination.

6. Five-Year Review

Because this remedy will result in hazardous substances remaining on-site above levels that allow for unlimited use and unrestricted exposure, a statutory review will be conducted at least once every five years after initiation of the remedial action to ensure that the remedy is protective of human health and the environment.

N. Documentation of Significant Changes from the Proposed Plan

The revised remedy remains substantially identical to that presented in the Proposed Plan. Responding to comments from community members, EPA will include mitigation for visual and noise impacts to nearby landowners and tenants. Mitigation will include construction of a direct-line-of-sight barrier along the northern site boundary to reduce adverse visual and noise impacts, control drainage, and control site access. EPA has revised the cost estimate for the revised remedy from \$7,542,000 to \$7,830,000.

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-	ACTION TO BE TAKEN TO ATTAIN REQUIREMENT		Site grading, construction of Impermeable cover, O&M, monitoring		Landfill gas emissions control/reatmen!, emissions controls during cover construction.	Emissions controls on landfill gas treatment unit	Vertication that emissions quantities do not trigger levels requiring new source performance review. Air emission equipment will be necessary if exceedances are predicted.	Addressed through meeting substantive requirements of SCACMD for emissions discharges from landfill gas collection system or SVE units.
	APPLICABLE MEDIA	#1,4	Landill cover drainage control; auface water discharge and run-off; construction.		Soll gas and landfill gas.	Soli gas.	Landill and soil gas.	Soll, wastes, soil gas, landfill gas.
TABLE 12 AND STATE OF CALIFORNIA ARARS FOR AMENDED ROD E DISPOSAL, INC. SUPERFUND SITE	COMMENT ⁽²⁾	, in the second	Certain regulations stemming from the Clean Water Act are Applicable to water discharges and groundwater treatment remedies. Stormwater requirements are applicable to construction of treatment units, if any.	-1	Applicable to emissions, including particulate matter, NO _X and CO emissions, from landfill gas treatment unit depending on emission rates.	Relevent end Appropriate to landill gas treatment and soil vapor extraction emissions depending on emission rates.	Relevant and Appropriate to soil vapor extraction units and the landfill gas treatment units depending on emission rates.	Applicable to landfill gas treatment and soil vapor extraction air discharges. Remedial actions should comply with relevant substantive requirements of the SiP.
FEDERAL AND S	SCOPE(1)	۷	Establishes the framework for regulations over the control of watel polition and restoration of water resources. Requirements for certain industrial and construction activities to ensure stormwater discharges do not contribute to a violation of surface water quality standards. Includes stormwater to minimize or eliminate politicants in stormwater discharges and monitoring to show compliance.		Establish Amblert Air Quality Standards for ambient air to protect public health and welfare identifies standards for six pollutants.	Establishes emission standards for certain particularly hazardous air pollutants.	Establishes standards for new stationary sources of an amissions to ensure that they are designed, equipped, operated, and maintained to reduce emissions to a minimum. The emission control technology on which the NSPSs are based is the best-demonstrated technology.	Regulates both norvehicular and vehicular sources of air pollutants. The SIP describes how the air quality programs of the state will be implemented. The South Coast Air Quality Menagement District (SCAQMD) is the Air Pollution Control District governing the site.
	REQUIREMENT AND CITATION	CHEMICAL SPECIFIC - WATER QUALITY	Clean Water Act, 33 USC §1251-1387, and 40 CFR pt. 122, cc National Pollution Discharge Elimination System, implemented by State Water Resources Control by State Water Resources Control of Board Statewide General Permits in General Construction) and 97-03 statement industrial)	CHEMICAL Specific - AIR QUALITY	Clean Air Act, 42 USC §7401. et seq.; National Primary and ar Secondary Amblent Air Quality 10 Standards (NAAOS), 4() FR §§50.1-50.11; Ambient Air Quality Standards, 17 CCR, §§70101.	Clean Air Act, 42 USC §7401, E3 et seq.; National Emission pe Standards for Hazardous Air Poltutants (NESHAPS), 40 CFR Part 61; SCAOMD Regulation X (adopting federal standards)	Clean Air Act, 42 USC §7401, es et seq.; New Source Performance of Standards (NSPSs), 40 CFR Part 60; SCAOMD Regulation IX em (adopting federal standards) be	Air Resources Act, Cel. H&S Code. Re \$39000, et seq.; California State the fimplementation Plan (SIP) im MR MR Plan (SIP) im MR

Γ	2:05-	cv			Do	cument	49	Fi	led 09			age 132 of	_
Page 2 of 10	ACTION TO BE TAKEN TO ATTAIN REQUIREMENT		Addressed through chemical characterization of liquids, wastes and soils prior to disposal and treatment, and hirough their disposal and treatment.	Characterization of wastes, soils, and liquids.		Through mondoing and application of landfill gas control measures			Construction of remedy and remedy must not expose migratory birds to hazardous materials.	Construction; confirm absence or endangered species with state and federal resource menagement agencies; Consultation with California Resource Management agency to confirm absence of endangered species.		If annacts are discovered ourning excavation and drilling, substantive requirements must be complied with	Through design of cover and control systems, future land use, and maintenesce and familiarized and familiarized in the controls.
, in the second	APPLICABLE MEDIA	***	Liquids, wastes, soils.	Soil, liquids, liquids treatment resture, waste, soil gas treatment residue.		Soil gas.			Soll, ländfill cover, construction.	Soli, landfill cover, construction.		Solis, landfill cover	Landili cover, wastes, gases.
TABLE 12 (Continued)	COMMENT ⁽²⁾		Applicable to the storage and disposal of liquid, wastes and soils contaiting PCBs, at concentrations greater than 50 ppm.	Applicable to the characterization of contaminated soils, wastes, and liquids.		Refevent and Appropriete as standards for control of methans.			Applicable to migratory birds. Certain bird species, including doves, have been observed at the Site.	Applicable if endangered or threatened species or their habitat are present at the Site. At this time, it appears that no endangered or threatened species or their habitat are present. Habitat is unlikely to be created during construction of the remedy.		Applicable if action is taken in area which may cause irreparable harm, loss or significant destruction of artifacts. These requirements must be considered if artifacts are discovered or appear likely to be discovered during any excavation or drilling.	Relevant and Appropriate for redevelopment and reuse.
	SCOPE(1)	NEATION AND STANAGEMENT	Establishes means for storage and disposal of material contamilated with polychlonnated biphenyls (PCBs) of concentrations of 50 parts per million or greated.	Establishes critifia and methods for characterizing hazardous wastas.	ASES	Requires control of lendfill emissions as follows. Methane concentration must not exceed 1.25 percent by volume in air in onsite sinctures.	 Methane concentration must not exceed 5 percent by volume in air at property boundary or atternate boundary. 	COATION SPECIFIC. FNDANGERED SPECIES AND MIGRATORY BIRDS	Migratory Birds must be protected from polsoning at hazardous waste sites.	Imposes timits on agency action that may leopardize endangered or threatened species or adversely modifies their habitat. Requires consultation with the Department of Fish and Wildlife or California Department of Fish and Game if listed species or habitat may be affected. Requires consideration of mitigation measures.		Requires action to recover and preserve artifacts if alteration of terrain may threaten significant actentific, prehistoric, historic, or archaeological date.	Provides postclosure design and construction requirements for buildings on site and within 1,000 feet of waste holding area.
	REQUIREMENT AND CITATION	CALLED BEING AND SEANANTENENT	Toxic Substances Control Act, 15 U.S.C. §§2601-2692; 40 CFR §§761.50-761.79	Resource Conservation and Recovery Act, Public Law No. 94-560, 90 Stat 2795, 42 U.S C §6901, et seq.; Hazardous Waste Control Act, Div. 20, Ch. 6 5, §25100, et seq., Criteria for allomisting Hazardous Wastes.	CHEMICAL EDECISION LANDELL GASES	Gas Monttoring and Control During Closure, 27 CCR §20921		OCATION SPECIFIC - ENDANGER	Nigretory Bird Treaty Act, 16 U.S.C. §703-712.	Endangered Species Act. 16 USC §§1531-1534; Protection of Endangered and Threatened Species 200 and 402; 40 CFR §8.302(h); California Endangered Species Act, Catifornia Carte Act, Catifornia Cate Act, Cate Ac	PISH BID CENTER COST AND USE	Archaeological and Historic Preservation Act. 16 USC §§469, et seq.; 36 CFR Part 65	Positiosure Land Use, 27 CCR §21190

REQUIREMENT AND CITATION				;	Page 3 of 10
		SCOPE(1)	COMMENT(2)	APPLICABLE MEDIA	ACTION TO BE TAKEN TO ATTAIN REQUIREMENT
ACTION SPECIFIC - WASTE MANAGEMENT	GEMENT		, 14		
Use and Management of Containers, 22 CCR 66264,170- 66264 178	Establishes requ waste containers or operators of the	Establishes requirements for handling hazardous waste container stored or transferred by owners or operators of pazardous waste facility.	Retevant and Appropriate to solids and inquids collected and contained threife prior to offsite transport and disposal.	Soll, wester, liquids, soll gas fresiment residue.	Through design, construction and operation of landfill containment system and management of liquids and other wastes on alte.
Standards Applicable to Generators of Hazardous Waste, 22 CCR, §§68262 10-68262 89	Establishes requirer hazardous was is, in determination, sack and documentation	Establishes requirements for generators of hezardous wastis, including requirements for waste determination, sack aging, labeling, accumulation, and documentation.	Applicable to generation of hazardous waste, including soils excavation end liquids extection, and to landfill operations and maintenance.	Soil liquids, waste.	Addressed through management and documentation of all hazardous wastes and materials containing hazardous wastes collected, treated, and disposed class part of the landfill closure action
Transportable and Fined Treatment Unit 22 CCR \$57450 3	Includes substant management of emissions trangit	includes substantive requirements for management of including discharge of efficient or emissions. Franchootable and fixed treatment SVE units.	Applicable to lendfill gas treatment unit and portable solivapor extraction freatment units.	2 th 10 los	Addressed through meeting substantive requirements for air emission
ACTION SPECIFIC - LANDFILL CLOSUINE	SU¹Æ				
PCRA Closure and Posiciosure for Landfilt closures, 22 CCR §66284 111-66264 120	E stabishes closines undece impound	Estabrishes closure requirements for landfills, surface empoundments, and waste piles	Relevant and Appropriate to the closure of landfill with wastes left in place.	Sqill kastes, Ilquids.	Through design and construction of landful containment system.
Corrective Action Wasie Management Ums, 22 CCR §§66264 552, 66264 553	Establishes that consective action remediation waste corrective action of tand disposal of his environment restablishes closure. Establishes requiric container storage.	Establishes that consolidation and placement into temedishes that consolidation and placement into temedistion wastes generated as part of a corrective action does not constitute placement or tand disposal of hazardous waste. Prohibits creation of an unacceptable risk to furnans and the anvironment resulting from exposure. Establishes closure and other requirements. Establishes requirements for temporary tank and container storage.	Retevant and Appropriate for the excavation and consolidation of outlying wastes into the central portion of the site to reduce area affected by wastes. The final cover and control systems containing consolidated wastes must meet the landfill closure ARARs.	Wester, soils. Container requirements relate to extracted liquids and liquid and soil gas treatment restore.	Addressed through design and construction of remedy, including management and consolidation of wastes and soils, and cap construction. Extracted liquids and liquid and soil gas treatment residue must meet container requirements
Solid Waste Management Act of 1972, 27 CCR, §20919, Gas Control	Requires monitor decomposition gr nuisance.	Requires montoding and gas control when landfill decomposition gases may present a hazard or nulsance.	Relevant and Appropriete to monitoring and applicable control measures for methane and hazardous gas generated at the site.	Soll gas.	Through site-wide monitoring program and implementation of any necessary gas control measures.
Gas Monitoring and Control during Closure and Postclosure, 27 CCR, \$20921,	Requires control of trace t acute and chronic exposu carcinogenic compounds. Requires closure and post continue for 30 years or ut discontinue. Requires modification of a changing land uses. Post not interfere with gas mon system function.	Requires control of trace gases to prevent adverse acute and chronic exposure to toxic and/or carcinogenic compounds. Requires closure and postclosure activities to continue for 30 years or until authorized to discontinus. Requires modification of systems to reflect changing land uses. Postclosure land use must not interfere with gas monitoring and control extending.	Relevant and Appropriate to hazardous disposal sites that did not commence complete closure by August 18, 1989.	Soil Gas.	Through continuation of site-wide monitoring program and implementation of necessary gas control measures.

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		TABLE 12 (Continued)	A Section of the first	Page 4 of 10
REQUIREMENT AND CITATION	SCOPE ⁽¹⁾	COMMENT(2)	APPLICABLE MEDIA	ACTION TO BE TAKEN TO ATTAIN REQUIPEMENT
Monitoring during Closure and Postclosure, 27 CCR \$20923	Ped Portion	Relevant and Appropriate to the design and maintenance of the landfill gas monitoring system	Soli ges.	Through application of these requirements into the manitoring program.
	Agacem land use and maphable structurer within 1 Ord test of disposal sas property Man made pathways Mature age and gas generation potential of weste			
Permeter Mondoren Guro Cheure and Prefebrane 37 CFR \$20025	Percures length gas mornioung network annurol wests depost permeter and deposts are branched and deposts are met branched or construction of soliginal permeter specific and construction of soliginal monitoring wells, including construction of soliginal monitoring wells, including construction around permeter 5pacing not to exceed 1,000 h. Probe at \$10 to the Probe at waste depth of waste Probe at waste depth of waste construction as specified.	Retexent and Appropriate to mondowing of soul gas	Soil ges	Through design and implementation of soil gas monitoring system
Structure Montoring during Closure and Postckosure. 27 CCR §20931	Requires monitoring histide buildings and of onsitie structures such as veuts where gases can build up, both edjacent to end on top of waste deposit area. Requires that structures on top of waste be monitored continually.	Relevent end Appropriete to monitoring of soil gas adjacent to and within buildings.	Soli gas; Indoor air.	Through design and implementation of indoor and near-building soil gas monitoring.
Monitoring Peremeters during Closure and Postclosure, 27 CCR §20932	Requires sampling of monitoring probes and onsite structures for methane and for trace gases that may pose acute or chronic exposure nsk due to toxic or carcinogenic compounds.	Relevant and Appropriate to identification of soil gas and indoor air monitoring perameters, and to the sampling of soil gas and indoor air.	Soli gas; indoor eir.	Through design and Implementation of Indoor and Incer-building soil gas monitoring.
Monitoring Frequency during Closure and Postchsure, 27 CCR §20933	Requires monitoring quarterly, or more frequently if gas migration is occuming or other factors are met.	Retevent and Appropriate to the monitoring frequency for in-building air and soil gas.	Soll ges; Indoor air.	Through design and implementation of indoor and near-building soil gas monitoring.

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Page 5 of 10	ACTION TO BE TAKEN TO ATTAIN REQUIREMENT	Through design, construction, and operation of gas control system addressing these requirements.		Addressed through dust control measures during construction and maintenance of cover.	Addressed through design and postclosure maintenance of cover and drainage systems.	Addressed through design and postclosure meintenance of cover and drainage systems.	Addressed through implementation of security measures during postclosure period, depending on postclosure land use	Addressed by incorporation of standards into design of cover and gas management system and adherence to standards during construction and maintenance.
The applications	APPLICABLE MEDIA	Soll gas, Indoor air.		Solf, wastes.	Soll, surface water, liquids control, cover.	Soll, surface water, liquids control	Solf, waste.	Soll, waste, soil gas.
TABLE 12 (Continued)	COMMENT ⁽²⁾	Relevant and Appropriate to design and operation of landful gas control system.		Relevant and Appropriate for the construction and maintenance of the landfill cover.	Applicable for landfill postchoure design and maintenance	Relevant and Appropriate to landfill cover maintenance.	Centain parts of the regulation are potentially Relevant and Appropriate to operations and maintenance of closed landfill, depending on the postclosure land use.	Applicable for design and construction of the fandfill cover and the management of landfill gas.
्मो ≂	(1)3dODE	When gas monitoring results show methane is exceeding the levels established in Section 20921 (1.25 percent volume air within onsite structures or 5 percent volume air within onsite structures or 5 percent volume air at facility or alternate boundary), requires taking of all steps necessary to protect public health, safety, and the environment Atso requires the design and construction of a gas control system to: Prevent methane accumulation in onsite structures Preduce methane at property boundary to below compliance levels C. Reduce trace gasses.	d Collect and treat landfill gas condensate Requires a system for monitoring and adjustment to assure optimum operating efficiency.	Requires the operator to take adequate measures to minimize the creation of dust.	Requires drainage and erosion control systems to prevent public contact with waste and to ensure integrity of land use and monitoring and control systems.	Requires grading of disposal area covered surfaces to promote lateral run-off of precipitation and to prevent ponding. Requires grades to be established with sufficient slope to account for future settlement.	Requires site security, including signs and resurction of access to closed landfill sites to protect public health and safety.	Requires final cover to protect human health and safety by controlling landfill gas migration and other factors. Requires final cover to be compatible with postchosure land use. Cover must meet requirements of 27 CCH §21090 must be cover must comply with 40 CFH §258.8(b).
	REQUIREMENT AND CITATION	Landril Gas Control. 27 CCR §20937		Dust Control for Landfull and Disposal Sites, 27 CCR §20600	Drahage and Eroslon Control. 27 CCR §21150	Grading of Fitt Surface at Landilli and Disposal Sites, 27 CCR §20650	Security at Closed Sites, 27 CCR \$21135	Final Cover Standards, 27 CCR §21140

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Page 6 of 10	ACTION TO BE TAKEN TO ATTAIN REQUIREMENT	Through incorporation of these requirements into the design, construction, and maintenance of the structures proposed as part of postclosure land uses	Addressed through a dealgn that incorporates the grading criteria and construction of the cover to meet the design criteria.	Addressed through design and construction of cover to meet criteria.	Addressed inrough design, construction, and implementation of cover and gas control system.	Addressed through design, construction, and implementation of cover and leachate collection system.	Addressed through design and construction of cover to meet criteria	Addressed through design and construction of cover to meet criteria
	APPLICABLE MEDIA	Westes, teachate, landilli gas, cciver systems.	Soll, waste, cover.	Soll, waste, cover.	Gas, liquids, cover.	Liquida, cover.	Soil, waste, gurface water quelity.	Soil, waste, surface water quelity.
TABLE 12 (Continued)	COMMENT(2)	Relevent and Appropriate to postclosure land use and to design, construction, and maintenance of cover.	Applicable to design and maintenance of the landfill cover.	Applicable to design, construction, and meintenance of the final landfill cover.	Applicable to design, construction, and maintenance of gas control and cover.	Relevant and Appropriate to design, construction, and operation of leachate removal system and cover.	Relevent and Appropriate to design, construction, and meintenence of final landfill cap and associated sinuctures for containment of site reservoir wastes.	Relevant and Appropriate to design, construction, and maintenance of the final tendfill cap and associated structures for containment of wastes in areas outside of the reservoir.
	SCOPE(1)	Requires postdigure land use to protect the cover and gas monitoring systems and prevent public contact with the wastes, gas, and leachate. Addresses design of postdioure land uses, including onsite generations and requires all such construction to maintain integrity of cover and control system. Establishes additional requirements for construction.	Provides requirements regarding the linal grades for covered landfills	Requires design of the slope stability of the final site face to provide for the integrity of the cover under both static and dynamic conditions	Requires implementation and maintanance of fandfill gas control and leachate contact prevention system	Requires leachate collection and removal system; design must ensure that there is no buildup of hydrautic head on liner, and that the fluid in the collection sump be kept at the minimum needed to ensure efficient pump operations.	Requires that Infiltration controls for final closure, including drainage controls, final cover, and other remedial confairment structures over wastes associated with the reservoir area, be designed and constructed to fimit, to the greatest extent possible, ponding, infiltration, inundation, erosion, stope failure, washout and overtopping, and control curvoit and union under precipitation conditions associated with the probable maximum precipitation (PMP). For purposes of fills Amended ROD, the final cap and other remedial structures necessary for confairment of reservoir westes are considered Class i facilities.	Requires that infiltration controls for final closure, including drainage controls, final cover, and other remedial containment structures over wastes outside of the reservoir area, be designed and constructed to limit, to the greatest extent possible, ponding, hilltration, inundation, erosion, slope failure, washout and overtopping, and control rungarsociated with the 100-year 24-hour storm event. For purposes of this Amended ROD, the final cap and other remedial structures necessary for containment wastes outside of the reservoir area are considered Class tit fecilities.
	REQUIREMENT AND CITATION	Postclosure Land Use, 27 CCR §21190	Final Grade, 27 CCR §21142	Slope Stability (Final Ste Face). 27 CCR §21145	Landfill Gas Control and Leachale Contact Prevention. 27 CCR §21160	Leachara Collection and Removal Systems, 27 CCR §20340	Precipitation and Drainage Controls, 23 CCR §2546	Precipitation and Drainage Controls, 27 CCR §20365

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Page 7 of 10	· ACTION TO BE TAKEN TO ATTAIN REQUIREMENT	Addressed through construction of barriers, it needed and feasible.	Addressed through implementation of postclosure monitoring program for vadose zone liquids	Addressed through development of and adherence to, a post closure plan that addresses compatible post closure uses, and through operation and maintenance of cover and control systems	Addressed through design, construction, and O&M of control systems.	Through design, construction, and maintenance of cover.	Addressed through design and construction of remedial systems.	Addressed through design, construction, and O&M of control systems.	Through design of cover, control, and O&M addressing these flems,
The state of the s	APPLICABLE MEDIA	Wastes, soil, leachste/liquids and fun-off.	Wastes and teachate (liquids).	Wester and soil gas.	Waste, leachate (liquids), and soil gas.	Wastes, cover, cover systems.	Cover, cover systems, and other remedial systems.	Cover, cover systems, and other remedial systems.	Wastes, liquids, soll gas, groundwater.
TABLE 12 (Continued)	COMMENT ⁽²⁾	Relevant and Appropriate to leachate, run- off, and gas control measures.	Relevent and Appropriate to postclosure monitoring of closed landfill.	Applicable to post closure use of the closed landfill and maintenance of control systems.	Relevant and Appropriate to design, constitution, and O&M of landfill containment systems.	Relevant and Appropriate to design of cover and cover systems.	Relevant and Appropriate to construction of the remedy for the site.	Relevant and Appropriate to design, construction, and OBM of landfill containment systems.	Applicable to design of landfill cover and control systems, and to O&M.
	· SCOPE(1)	Establishes requirements for containment structures, Including materials, testing, and hydrautic condulativity. Requires existing landfills to be fitted with Substituce barriers, as needed and feasible. Establishes standards for construction of any subsurface barriers, including grout curtains and cutoff waits.	Requires vadosą zone monitoring for waste constituents for darry detection of releases from a tenditin	Establishes requirements for post-closure maintenance to ensure integrity of final cover and environmental control systems. Requires monitoring and establishes a post-closure care period necessary to protect human health and the environment.	Establishes requirements for design, construction, and maintenance and cover, maintenance and monitoring programs, leachate coffection and removal, ground water monitoring, and leak detection, gas control and treatment.	Requires cover and cover systems and all containment and control features remaining after closure to withstand the maximum credible earthquake without decreasing environmental and public health protection.	Establishes requirements for a withen construction quality assurance program that is developed and implemented under the direction a COA officer who is a California state registered professional Civil engineer.	Allows flexibility to implement other equally protective site-specific elternatives. Alternatives shall demonstrate that: (1) the construction or prescriptive standard is not feasible according to certain criteria, and (2) there is a specific engineered alternative that is consistent with performance goals and effords equivalent protection against water quality impairment.	Establishes requirements for final cover, leak detection, cover repair, hydraulic conductivity, leachate and gas control, leachate removal, ponding prevention, drainage and nun-off control, cover surveys, grading; establishes postclosure duties, including inonitoring of groundwater and surface water.
•	REQUIREMENT AND CITATION	General Criteria tor Waste Management Units and Containment Structures, 27 CCR §§20310(d), 20320, 20360	* Vadose Zone Montoring. 27 CCH §20415(d)	Postclosure Care and Use of Property, 27 CCR §21180	Closure and Prostcosure Care, 22 CCH §66264,310	Seismic Design Standards. 22 CCR §66264.25(b)	Construction Quality Assurance, 22 CCR §66264,19	Allowance for Engineered Attensities to Construction or Prescriptive Standards, 27 CCH §20080(b)(c)	Closure and Postclosure Maintenance requirements for Disposal Site and Landillis 27 CCR §21090

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Page 8 of 10	ACTION TO BE TAKEN TO ATTAIN REQUIREMENT		Addressed through postclosure groundwater monitoring (sampling and analysis) program, including identification of points of compliance, monitoring period, monitoring requirements, detection evaluation.	Addressed through development and Implementation of a groundwater and vadose zone monitoring program	Addressed through development and implementation of a groundwater and vadose zone monitoring program.		Addressed through employment of dust control measures during drilling, excavation, earth moving, and placement of final soil cover, and through control of construction, equipment exhaust and treatment systems emissions.		Addressed through employment of dust control measures during duffilling, excavation, earth moving, and placement of final soil cover, and through control of construction equipment exhaust and treatment systems emissions.
	APPLICABLE MEDIA		Wasies, groundwater.	Groundwater.	Groundwater.		Solis, wastes, cap, and construction equipment emissions.		Soils, wastes, cap, and construction equipment emissions.
TABLE 12 (Continued)	COMMENT ⁽²⁾		Relevant and Appropriate to the groundwater monitoring effort for waster left that in place of derived from waste in place.	Relevant and Appropriate to postclosure monitoring of groundwater and vadose zone.	Applicable to determining beneficial uses for waters affected by waste discharges. Groundwater at the Site is considered a source of drinking water.	nagement District Rules	Applicable to drilling, excavation, cap, treatment systems, construction, and exhaust from construction equipment and asphalt equipment.		Applicable to drilling, excavation, cap, treatment systems, construction, and exhaust from construction equipment and asphalt equipment.
	SCOPE(1)	ž	Establishes redifferments, including point-of- compliance boundary, for groundwater monitoring for landfills, surface impoundments, waste piles, and land treatment units to attain compliance with water quality priffection standards	Estabhahes general requirements for water quality monitoring system, including background monitoring, for groundwaler, surface water, and vedose zone	Establishes that virtually all groundwater and auridece waters are considered sulfable, or potentially sulfable, for municipal or domestic water supply	Air Resources Act Health & Safety Code/ Title 17, Div. 26, Parl III, §39000, et seq./ South Coast Air Quality Management District Rules	Prohibits discharge of air contaminants based on darkness in shade," measured by the Ringleman chart.		Prohibits discharge of air contaminarits or other materials that cause frijury, defitment, rusisance, or annoyance, which endanger comfort, repose, health or safety, or which cause or may cause injury or damage to business or property.
	REQUIREMENT AND CITATION	ACTION SPECIFIC - WATER QUALITY	Water Quality Monitoring Requirements for Permitted Facilities, 22 CCR, §§66264.95, 86264.97, 66264.96, 66284.99	Groundweler Mantoring, 27 CCR §§20405, 20415-20430	Porter-Cologne Water Quality Control Act, Cat Water Code §§13000, 13140, 13240, State Water Resources Control Board Resourcen Control Board Resourcen No. 88.63, "Sources of Orinking Water Policy"; L. 1 Angeles RWOCB Resolution 89.63 (adopting Resolution 88.63 into Basin Plan)	Air Resources Act Health & Safety Code/ Title 17, Div. 26	Visible Emissions, SCAOMD Rule 401	ACTION SPECIFIC - AIR QUALITY	Nuisance, SCACIMD Rufe 402

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	Page 9 of 10	ACTION TO BE TAKEN TO ATTAIN REQUIREMENT	Addressed through employment of dust control measures duting excavation, earth moving, and placement of final soil cover.	Addressed through employment of dust control measures during excavalion, earth moving, and placement of final soil cover and during drifting and construction.	If necessary, addressed through employment of control measures during excavation, each moving, and placement of final soil cover and during drilling and construction	If necessary, addressed through calculations of emissions quantities and comparison of quantities with standards. Alt emissions equipment will be necessary if exceedances are predicted.	If necessary, addressed through use of appropriate equipment that minimizes air emissions.	If necessary, addressed through use of appropriale equipment that minimizes air emissions from any fuel burning.	If necessary, addressed through use of appropriate equipment that minimizes air emissions from any burning of combustible refuse.	Il necessary, through placement of cover using materials as specified.	If necessary, addressed through planning for and use of appropriate control measures and equipment that minimizes air emissions.	
i Ş A	The second secon	1 APPLICABLE MEDIA	Soils, westes, cap, and construction equipment em/ssicns.	Soil, waste, cap.	Soll, waste, cap.	Soli gas, treatment equipment.	Soil gas, equipment.	Equipment and treatment systems.	Treatment systems and equipment.	Asphalt cover.	Soils, wastes.	/
TABLE 12	(Continued)	COMMENT ⁽²⁾	Applicable to drilling, excavation, cep, construction, and exhaust from construction equipment and asphalt equipment.	Applicable to excevation of soils and westes, drilling, construction.	Applicable to excavation of soils and wastes, drilling, construction	Applicable to operation and maintenance of fandfill gas treatment system.	Applicable to operations and maintenance of landfill gas treatment unit and other equipment	Applicable to any fuel buming activities other than those from Internal combustion engines.	Applicable to any burning of combustible refuse.	Applicable to use of asphalf in the cover, construction and maintenance of the cover,	Substantive requirements are Refevent and Appropriate to any excavation.	;
e 33		(1) SCOPE(1)	Limits onsite addivities so that the concentration of fugitive dust at the property tine will not be visible. Requires use of best available confrol measures to minimize fugitive dust emissions.	Prohibits dischárge of perfectiate matter exceeding specified concentrations. Prohibits discharge of gas above concentration limits.	Prohibits discharge of solid perfectiate matter exceeding specified weights and rates	Limits carbon monoride emissions from equipment to 2 000 parts per million (ppm) by volume and suffur doride emissions from equipment to 500 ppm by volume. Both averaged over 15 minutes.	Restricts the concealing of air emissions without accomplishing a reduction in total emission of air contamination	Limits discharge of combustion contaminants resulting from fuel burning; does not apply to emissions from internal combustion engines	Imposes restrictions on emissions from the burning of combustible refuse.	Prohibits sale or use of emulsified asphall exceeding specified limits.	Requires planning, including mitigation measures, to prevent public mulsance.	
		REQUIREMENT AND CITATION	Fugitive Dust, SCAOMD Rute 403	Particulate Matter (Concentration), SCAOMD Rute 404	Sold Pariculate Marter, SCAOMD Pude 405	Liquid and Geseous An Contemnants SCADAD Pure 40?	Circumvertion, SCAOMD Rule 408	Combustion, SCACIND Rule 409	Disposal of Solid and Liquid Waste, SCAOMD Ride 473	Emulsified Asphalt, SCAOMD Regulation 1108.1	Excavation of Landfill Site, SCACIMO Regulation 1150	

COMMENT(2) Substantive requirements are potentially Applicable to any excavation of soits and wastes.
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Athenation	Apprevations used in the Table
CCM	California Code of Regulations
CENCIA .	CEPICLA . Comprehensive Environmental Response, Compensation, and Liability Act, as amended
Ę	Code of 6 ederal Regulations
f P A	 Linded States Financial Protection Agency
Ş	Nanonal Contropercy Plan
NS & St	New Source Performance Standards
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PAYOCB .	Regional Water Questy Control Bhard
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9 0	Polycheonnated Biphenyls
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For concentration having stated in Chapter 3.0 of the May 2001 Supplemental Feasibility Study.

Only the substantive, and not the administrative, requirements of the identified laws and regulations are Applicable or Relevant and Appropriate. Ξ @

Responsiveness Summary

Part III - RESPONSIVENESS SUMMARY Waste Disposal, Inc. Superfund Site **Amended Record of Decision**

Overview

EPA's revised remedy for the Waste Disposal, Inc. (WDI) Superfund site involves construction of containment systems designed to minimize the potential for exposure to eito related contaminants. Because the WDI site contains significant buried waste, EZA: following its policy for using containment as the presumptive remedy for landfills. Accordingly, EPA will require installation of capping systems, environmental control systems for soil gas and liquids, and monitoring systems to contain waste in place and ensure long-term protectiveness of human health and the environment.

The remedy involves the construction of a variety of engineered capping systems, gas collection and control systems, liquids collection systems, and groundwater monitoring systems. The capping systems include a RCRA-equivalent layered soil and membrane cap over the reservoir area in the center of the site, and engineered capping systems (a graded soil cap, graded soil and asphalt cap, and graded soil and concrete cap) over various portions of the site outside the reservoir area. Engineering controls, such as sealing concrete floor slabs and installing ventilation systems and vapor barriers to prevent the intrusion of landfill gas into buildings, will be installed at existing structures. In addition, demolition and permanent and/or temporary relocation of some existing structures and facilities may be conducted as necessary for structures where it is not technically feasible to install engineering controls. The remedy also includes implementation of institutional controls (legal and administrative restrictions) to control future land use and protect the integrity of the remedy. Long term operations, maintenance and performance monitoring will be conducted to ensure that the remedy is functioning as intended.

The revised remedy differs from the original remedy that was selected in the 1993 Record of Decision (ROD) in that the revised capping systems cover a significantly greater area than was included in the original remedy. The revised remedy does not include extensive excavation and reconsolidation of waste and contaminated soil as was included in the original remedy. The revised remedy also includes long term soil gas and in-business air monitoring to evaluate the effectiveness of the remedy. Groundwater monitoring -- not included in the original 1993 ROD -- has also been added to the revised remedy to monitor remedy effectiveness and to detect potential changes in site hydrologic conditions or impacts to groundwater.

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EPA received comments on the Proposed Plan for the Waste Disposal, Inc. remedy at the public hearing on Thursday, June 14, 2001, at South Whittier Intermediate Schools Appendix 1 contains a copy of the transcript for this public hearing. EPA also received several comments through written correspondence and e-mail (see Appendix 2). This section summarizes those comments and presents EPA's responses.

Summary of Alternatives

EPA evaluated five alternatives in detail for addressing the contamination at the Waste Disposal, Inc. site, including a no-action alternative. These alternatives were described in detail in the Supplemental Feasibility Study (SFS) that was completed in May 2001 and the Proposed Plan that was presented in June 2001. The alternatives are also described in this Amended Record of Decision. With the exception of the No Further Action alternative, all the alternatives propose building a RCRA-equivalent multi-layer landfill cap over the central waste reservoir (in Area 2) and placing engineered capping systems, including graded soil, asphalt, and/or concrete, over the buried waste outside of the reservoir (in Area 2). All of these alternatives also include:

- extraction of leachate and free liquids from beneath the cap in the reservoir area;
- extraction and treatment of soil vapor from beneath the capping systems;
- installation of engineering controls to prevent entry of soil vapor into buildings;
- groundwater monitoring to detect any contamination from the site;
- institutional controls to prevent future land uses or activities that might compromise the remedy and to ensure access for ongoing operations and maintenance (O&M);
- long term O&M.

The alternatives differ primarily in the amount of waste outside of the central reservoir (in Area 2) that would be excavated and consolidated within the reservoir before capping. Alternatives 2 and 3 rely upon containment with no significant excavation or reconsolidation of waste. Alternatives 4 and 5 include partial and extensive excavation and reconsolidation of waste, respectively. While Alternatives 2 through 5 anticipate and would allow for future site redevelopment consistent with the remedy and use restrictions, Alternative 3 explicitly included redevelopment with remediation as a single combined process that involved removing most or all buildings on the site prior to capping as an integral part of the City of Santa Fe Springs' redevelopment of the site. However, Alternative 3 would involve significant delays in the implementation of the environmental remedy to allow for the redevelopment planning process.

EPA's preferred alternative (Alternative 2), includes the broadest application of capping and the least excavation of wastes of the four active proposals. This alternative prevents contaminants from the buried waste from coming into contact with people through soil, air, or groundwater over the long term. At the same time, it minimizes the

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Responsiveness Summary

risk to cleanup workers and nearby occupants from waste disturbed and transported during cleanup. The revised remedy also anticipates future land uses for the site. The City of Santa Fe Springs is interested in the future redevelopment of the site for industrial land uses. The revised remedy will be designed so as not to preclude future redevelopment by others once development plans have been finalized. Although the selected alternative does not directly include site redevelopment, it is generally compatible with the City of Santa Fe Springs' goals for future redevelopment while accounting for the uncertain development timetable.

Support Agency Comments

No comments were received.

History of Community Involvement at WDI

PA placed the WDI site on the National Priorities List (NPL) of Superfund sites in July #1987. EPA involved the community throughout its subsequent investigation process, which culminated in the original Record of Decision in 1993. EPA received additional input from community members, including the Protect Our Neighborhood Committee = (PONC) during the design process that began in 1994. The community's input has been useful to EPA in guiding investigation and design processes. EPA has also provided support to PONE through the Technical Outreach Services for Communities (TOSC) program to enhance communications with the community and to provide the community with additional technical support services.

In conjunction with input from the community, EPA and potentially responsible parties undertook additional investigations at the Site after 1994, which ultimately revealed the need for this revised remedy. The revised remedy will more effectively address buried wastes, soil gas, liquids, and groundwater at the Site. The results of the additional investigations and the alternatives considered by EPA for the revised remedy are set out in the Administrative Record for the Site and in the Supplemental Feasibility Study (SFS) and the Proposed Plan (both of which are included in the Administrative Record). During the entire process, EPA has issued fact sheets to the community and conducted public meetings with local residents, business owners, and tenants, and the nearby high school staff to both inform the community of new developments and to solicit community input. EPA held a formal public comment period on the Proposed Plan for the revised remedy on June 1, 2001. EPA received one e-mail and two comment letters during this comment period. EPA also held a public hearing on June 14, 2001 in Santa Fe Springs to present the Proposed Plan and to receive comments from the community and any interested parties.

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Responsiveness Summary

Summary of Comments Received and Agency Responses

Comments from the June 14 public hearing

General comments. Two community members made generally supportive comments regarding EPA staff.

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PA Response: EPA thanks the community for their interest and active participation in the investigation of the WDI site and looks forward to working with you as we implement ==the cleanup.

Editorial comments on the Proposed Plan fact sheet. One person commented that the fact sheet referred to a "Figure 4," which was not in the fact sheet.

EPA Response: EPA acknowledges that the reference should have been to "Figure 2" and apologizes for the oversight. The commentor did not indicate any difficulty in understanding the Proposed Plan, and EPA believes that the error does not materially affect understanding of the Proposed Plan.

Duration of Waste Dumping. One participant commented that the Proposed Plan fact sheet did not mention that dumping on the site continued after the county permit expired in 1964.

EPA Response: Although the Proposed Plan does not mention it, the Amended Record of Decision (p. II-5) recognizes that "most, but not all, disposal activities appeared to have ceased" by 1964. This Amended ROD further states that some disposal activities may have continued until 1966 as the site was being graded.

Redevelopment. Some participants expressed interest in the City of Santa Fe Springs' redevelopment effort and its relationship to the cleanup.

EPA Response: As previously stated, the City of Santa Fe Springs has expressed an interest in redeveloping the site for certain industrial use at some point in the future. Specific plans for redevelopment have not been finalized, however. The City applied for and received a grant from EPA under the Superfund Redevelopment Initiative (SRI) to assist in the preparation of redevelopment plans for the WDI site. The grant is being used to fund a public process to evaluate the future land uses for the site. The City is currently developing a specific use plan that will serve as a blueprint for future site redevelopment. The City's redevelopment plan and EPA's environmental remediation plan are the results of two separate processes. However, the two planning processes and related design activities are interrelated. EPA's remedial response action will be implemented as soon as possible according to this Amended Record of Decision and

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supporting decision and design documents. Redevelopment may be undertaken at some point in the future by other parties following completion of the City's master redevelopment plan (specific use plan) and the selection of a developer by the City.

EPA's site remediation plan, as presented in the Amended ROD and subsequent decision and design documents, will place limits on the siting of new-buildings and other uses of the land in order to maintain the integrity of the remedy. Residential redevelopment will be prohibited under the institutional controls that are included as part of the revised remedy. The institutional controls will also place restrictions on the types of construction and operational activities that can be conducted on the site once the capping work has been completed. The revised remedy, however, will be designed to accommodate the City's preferred future industrial land use to its maximum extent practicable while ensuring protection of human health and the environment. The City's redevelopment plan will determine the specifics of the ultimate ase of the WDI site, including the architecture and aesthetics of the buildings and grounds and the flow of traffic into and out of the site.

Extent and Timing of Building Removal, Cleanup, and Redevelopment. Several owners of smaller parcels on the edges of the site and business owners who are tenants at these properties requested clarification on the extent and timing of the cleanup and possible building removal and on the timing of redevelopment, since it affects their businesses or their tenants' businesses. One-business owner inquired about compensation for relocation, and one community estident expressed interest in the fairness of compensation for businesses. One property owner inquired about the effects of the cleanup on transfer of the property.

EPA Response:

As stated, the selected remedy (Alternative 2) involves implementation of a containment remedy intended to prevent exposure to buried waste, contaminated soil, and soil gas. Recognizing the City's desire to redevelop the site, the containment facilities, systems, and operations will be designed to accommodate future redevelopment by other parties to the maximum extent practicable while not compromising EPA's mission of protecting human health and the environment. EPA seeks to implement the remedy as soon as possible, but recognizes that site redevelopment my be undertaken at a future date by other parties.

EPA anticipates that the permanent and/or temporary relocation of some existing structures may be necessary for implementation of the selected remedial action. This could include demolition of some existing structures or facilities to allow for installation of the cap and monitoring systems or for structures where it may be technically infeasible to install appropriate environmental engineering control systems.

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The revised remedy includes installation of engineering controls in existing structures that are located over waste or where the potential to exposure is considered to be the greatest. Engineering controls may include ventilation systems, concrete slabs, concrete slab crack sealing, vapor barriers, ventilation trenches along foundation slabs positive pressures ating, ventilation and air conditioning (HVAC) systems, and environmental menitoring systems. In some of the existing structures, however, it may be technically infeasible to effectively install engineering controls in a manner that would ensure presentiveness of human health and the environment. For those structures wherethe installation of engineering controls is technically infeasible, demolition of the structures will likely be required. Selection of specific structures that will require demelition will be determined during the remedial design process.

Criteria for determining which structures may require demolition include:

- Structures that are located over waste or contaminated soil
- Structures that might be susceptible to build-up of soil gas emissions
- Structures with concrete foundation slabs that are severely cracked or damaged
- Structures when the design precludes retrofitting to install engineering controls
- Structures with internal equipment that precludes installation of engineering controls
- Structures that would preclude or interfere with construction or O&M of the remedy.

In addition, depending on the conditions of specific structures and the nature of the necessary engineering controls, it may be necessary to allow access for remedial site workers, temporarily shut down business operations, and/or relocate a business to another temporary or permanent location. Final determinations on such structures will be made during the remedial design process. In all situations where a business or structure will be physically impacted by the remedial action, whether temporary or permanent, EPA will try to minimize disruption to operating businesses and provide notice as far in advance as possible of any unavoidable effects on business infrastructure and operations.

As mentioned previously, EPA's selected cleanup strategy and the City's redevelopment program are two separate processes that will be undertaken by different rentities. EPA's first priority is to implement an effective remedial action for the WDI site that is protective of human health and the environment. The revised remedy, however, will be designed so as to be compatible with future redevelopment to the maximum extent practicable. Any decisions by the City to demolish or remove buildings at the site for future redevelopment purposes are separate and distinct from the remedial action and are not included in this Amended Recorded of Decision.

The revised remedy also includes impleniontation of institutional controls on all properties at the site. These include access easements and environmental restrictions

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to be recorded for each property, so that they are binding on future owners (see Section L of the Amended Record of Decision). As described in Section L of this Amended ROD, certain activities will be prohibited or restricted subject to approval by EPA, in order to prevent construction or facility operational activities that might interfere with the capping or environmental monitoring and control systems. Exceptions may be made to these restrictions, subject to EPA's prior approval.

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Alternative Selection. Several meeting participants requested clarification of the process, timing, and rationale for the final choice af cleanup plan.

EPA Response: The Waste Disposal, Inc. Amended Record of Decision, of which this Responsiveness Summary is a part, memorializes EPA's final decision on the cleanup plan for the WDI site. As stated in the Proposed Plan for the site, EPA selected Alternative 2, which caps the waste at the site-with minimal excavation and disturbance of the waste. EPA chose this alternative because it isolates the waste over the longterm while minimizing exposure to the waste during the short-term, while the cap and other components are under construction.

EPA's revised selected remedy includes a cap over the reservoir (in Area 2) similar to the cap specified in the original Record of Decision. However, due to additional investigation, EPA now has much more extensive information on the type, amount, and location of all wastes at the site. As a result, this Amended Record of Decision calls for capping a larger area than was included in the original ROD with less excavation and on-site consolidation of waste.

During preparation of the Supplemental Feasibility Study, before EPA developed the Proposed Plan, EPA eliminated alternatives that included excavation of all wastes and disposal at an off-site location. EPA rejected these alternatives because of the prohibitive cost, the significant exposure to workers and nearby residents during the cleanup, and the lack of any off-site disposal location that would have guaranteed better long-term environmental protection than the current location of the wastes. Containment is EPA's presumptive remedy for landfills. EPA's selected remedy specifies that all remedial controls at the site will be monitored for as long as necessary to ensure that on-site workers and neighbors are not exposed to the wastes.

Protectiveness of the Remedy. One meeting participant asked for more specifics on how the preferred remedy would meet the remedial action objectives in the Proposed Plan.

EPA Response: EPA's objectives for the actions specified in the Amended Record of Decision, and the components of the remady designed to meet those objectives are listed below.

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1. Protect human health and the environment by preventing exposure to buried wastes and contaminated soils. EPA's selected remedy will place engineered capping systems over buried wastes and contaminated soil. The caps will take the forms of (1) a specially designed multi-layered soil and membrane landfill cap over the most concentrated waste area, and (2) engineered capping systems with layers of pavement, cleanscoil, or concrete slab foundations over other areas of buried wastes. Environmental systems will be installed to extract liquids and to extract and treat soil gas that are accumulate underground beneath the capping systems. Monitoring systems will be installed to ensure the effective functioning of the capping systems. Restrictions on future uses and activities on the properties at the site will prevent disturbance of the caps. Residential or similar uses of the property will not be permitted.

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- 2. Protect current and future on-site and off-site receptors from exposure to soil gases. EPA's selected remedy specifies systems to extract, collect, and remove soil gas from the reservoir area so that it does not escape into the open air, and systems termonitor soil gas at the perimeter of the site and prevent it from migrating off the site: It also specifies engineering controls, such as floor sealants and building venting systems, to prevent gases from collecting inside buildings.
- 3. Prevent buman exposure, including direct contact, consumption, and other uses, toesite liquids exceeding state and federal standards. EPA's selected remedy-includes a system to extract, collect, and safely dispose of liquids percolating through the caps or collecting in the reservoir (in Area 2).
- 4. Prevent contribution of site liquids to exceedances of state and federal groundwater standards. EPA's selected remedy specifies long-term monitoring of groundwater beneath the site to ensure that the site is not contaminating the groundwater. Groundwater monitoring plans will be prepared that detail methods and frequency for the collection and analysis of groundwater.
- 5. Prevent exposure to groundwater that exceeds state and federal standards. In addition to 4 above, institutional controls on the properties at the site will prohibit the construction or use of groundwater production wells and prevent exposure to contaminated groundwater.

Engineering Controls for Soll Gas. The participants expressed some interest in how the "engineering controls" on the buildings to prevent soil gas buildup would work and for what buildings they might not work

EPA Response: "Engineering controls" is a generic term for any physical modifications or additions to a building for the purpose of minimizing exposure to contaminants. As

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the design of the remedy progresses, EPA will examine a variety of options for preventing exposure to soil gas in buildings, including sealing all cracks in the foundations and installing active ventilation systems, either around the perimeter of the building or inside the building, to exhaust and replenish the air. If EPA determines that engineering controls are impracticable at certain buildings; those buildings may need to be removed and replaced with a suitable engineered where to minimize exposure to soil gas, as discussed previously.

Safety During the Cleanup Process. Several comments requested clarification on the technology used in the process of installing the remedy components to protect the occupants of nearby homes and of the adjacent school from exposure to dust or other contaminated media during the construction of the remedy.

EPA Response: EPA chose Alternative 2 as its selected remedy partly because it minimizes the disturbance of buried waste. Throughout the construction process, workers will be obligated to follow strict health and safety requirements and protocols that address construction safety practices and safety requirements and protocols that address construction safety practices and safety requirements and protocols that address construction safety practices and safety requirements and protocols will be procedures are specified in federal and state regulations, while others will be developed specifically for use on this site. As part of the design process, the designers will be required to prepare a health and safety plan that details procedures to ensure the safety of site workers, site occupants, and nearby residents.

During any activity that disturbs the soil coxex and possibly the buried waste at the site, EPA will require the construction contractor to follow procedures and use techniques that minimize airborne dust. These techniques may include spraying the site with water or foam during the work, or tenting the site and actively capturing and removing dust from the air before exhausting it, although this is unlikely to be necessary. Workers actively engaged in construction that disturbs the soil or buried waste on the site will wear protective clothing and breathe filtered or bottled air if necessary. These precautions are necessary only for those who work long hours in direct contact with contamination. They will not be necessary for people beyond the boundaries of the site. EPA will also monitor the air at the edges of the site to ensure that no airborne contaminants escape the boundaries.

Long-term Monitoring. Several comments requested clarification on which contaminants in soil would be monitored and on how long monitoring of soil gas, groundwater, and institutional controls would continue, and who would be responsible for the monitoring.

EPA Response:

The revised remedy includes numerous requirements for long term operations,

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maintenance, and monitoring for the WDI site. Operations and maintenance will include routine inspection, maintenance, and repair activities designed to ensure the effective long term operation of the capping systems and environmental monitoring and control systems. The remedy also includes numerous activities that are designed to monitor the effectiveness of the remedy and to ensure compliance with regulations and performance standards. Asspart of the design process, monitoring plans will be prepared that detail procedures for the collection and analysis of groundwater, soil gas. and indoor air. The purpose of the monitoring programs is to provide early detection of any indication that the remedy might not be functioning as designed. Monitoring is also intended to detect any changes in site conditions. The monitoring programs will be developed to monitor chemicals of concerns (COCs) that have been specified in the Amended Record of Decision: The specific details of the sampling and analytical procedures will be described in various site monitoring plans, including groundwater monitoring plans, soil vapor monitoring plans, indoor air monitoring plans, and associated quality assurance/quality control plans. These plans also describe the frequency of sample collection and reporting. EPA will provide technical review and oversight for all mositoring activities. In addition, EPA will conduct a review of the continued protectiveness of the remedy every five years, and ensure correction of any deficiencies discovered.

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Ongoing communication. Several participants commented that they would like to ensure that EPA-records all pertinent site information in writing and that EPA continues to notify them of the results of long-term monitoring, possibly through the internet but preferably through direct written communication.

EPA Response: EPA will maintain communications with the community throughout the cleanup process, including post-construction monitoring. EPA will place monitoring results in the information repositories for the site and on the internet as far as technology and resources allow. EPA will at times notify interested parties when new information is available and provide the information directly as much as practicable.

Cost. One comment requested clarification on what the cost estimates in the Proposed Plan covered.

EPA Response: For comparison purposes, the cost estimates for each alternative include the capital cost of constructing the remedy and operating, maintaining, and monitoring it for 30 years. Operations, maintenance, and monitoring costs would continue after 30 years for as long as those activities are necessary. These cost estimates reflect preliminary costs, and the actual cost of the selected remedy may vary as additional information becomes available during the remedial design process.

Health effects. One commentor inquired about whether any deadly health effects

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would be likely from childhood contact with site contaminants.

EPA Response: EPA has no evidence to show that deadly health effects are a likely result of childhood contact with site contaminants at WDI.

Comments from St. Paul High School letter of June 22, 2001

Remuneration. In a letter of June 22, 2001, commenting on the upcoming Amended Record of Decision, St. Paul High School requested that the document note its request for remuneration. The school seeks compensation for revenue reportedly lost due to several effects resulting from proximity to the site, including:

- a decline in enrollment resulting from negative publicity on and parents fears of the Superfund site.
- · increased costs for rodent and weed control on the school's playing fields, and
- expenses related to not using reclaimed water for irrigation.

EPA Response:

EPA notes the comment and appreciates St. Paul's interest in the Site. EPA is unable to provide remuneration to the school under CERGLA as requested as part of the Amended Record of Decision because such remuneration is not part of the revised remedy for the site and is outside the scope and authority of this Amended ROD.

Line-of-sight barrier. St. Paul's letter also requests that the Amended Record of Decision specify as part of the remedy a "barrier which eliminates the possibility of a 'direct line of sight' over the school, fields, and parking lot." (Request repeated in St. Paul's letter of December 20, 2001, to Russell Mechem)

EPA Response: The Amended Record of Decision includes this component for the construction of a line-of-sight barrier. The details for the configuration of the barrier will be developed during the design phase for the remedial action. In light of the plans for future redevelopment of the site, the barrier may initially be designed as an interim feature that would be replaced during the later redevelopment process with a barrier that would be aesthetically compatible with the redevelopment.

Comments from Johnson & Tekosky LLP letter of July 2, 2001

Representatives of the owners of parcels and 3 and 24 on the site submitted two comments via letter.

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Responsiveness Summary

One comment states that soil borings show no waste under parcel 3 and therefore no cap or other remediation is necessary for that part of the site. The other comment states that the data do not show constituents of concern in amounts significant enough to determine that waste materials underlie Parcel 24, and thus capping or other remedial measures for this parcel are not warranted.

EPA Response:

EPA has determined that the installation of engineered capping systems will be necessary for parcels #3 and #24 in the southwestern portion of the site. The Supplemental Feasibility Study and Amended Record of Decision include maps that delineate the boundaries of waste at the site based on the most recent soil and waste characterization activities. The maps can be found as Figure 2.3 of the Supplemental Feasibility Study and Figure 4 of the Amended ROD. As portrayed in these maps, waste underlies Parcel 24 and approximately the northern half of Parcel 3. The commentor appears have extracted information from two provisional summary documents (Parcel Packages) that contained preliminary information from earlier site investigations and that have been superseded by the Supplemental Feasibility Study and Amended ROD.

The selected remedy addresses the containment of buried waste and contaminated soils in accordance with EPA's policy of using containment as the presumptive remedy for landfills. The presumptive remedy uses the capping of waste and contaminated soil in order to: (1) psevent direct contact with buried waste and contaminated soil; (2) prevent infiltration of rainwater that can mix with waste and eventually percolate downward into groundwater; and (3) prevent exposure to soil gas. The containment system will include liquids extraction and soil gas collection and treatment to supplement the construction of capping systems. Additional technical information on the delineation of waste boundaries and anticipated locations for capping systems can be found in the Supplemental Feasibility Study that is included in the Administrative Record. The exact boundaries of the capping systems will be determined during the remedial design process, but EPA anticipates that the cap boundaries will cover a somewhat larger area than the exact waste boundaries in order to provide effective containment of waste, liquids, and soil gas and to prevent infiltration of rainwater.

Comments from John Jaeger via e-mail of June 16, 2001

Productive reuse. Mr. Jaeger recommends redevelopment of the WDI site to return the property to productive use.

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EPA Response: The City of Santa Fe Springs has designated the site a redevelopment area and is currently conducting a public process under a grant from EPA to determine the best future use of the site. The City is in the process of preparing a specific use plan that will serve as the blueprint for the future redevelopment of the WDI site. EPA's revised remedy does anticipate that redevelopment will occur at some point in the future after site remediation. The remedy will be designed to accommodate future redevelopment to the extent that EPA's goal of protecting human health and the environment is not compromised. However, site remediation and redevelopment will involve separate, though interrelated, processes that will be undertaken by different entities. Under its mission as an environmental regulatory agency. It is precluded from taking a lead role in redevelopment activities.

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Toxicity and risk. Mr. Jaeger asserts that, once remediated, the site-will pose no human health risks.

EPA Response: EPA has selected a remedy that will protect human health and the environment. However, this revised remedy includes restrictions that prohibit the use of the site for residential or similar purposes in order to minimize potential exposure to wastes that remain on the site.

Revised Remedy's Changes to the Proposed Remedy due to Public Comment

In response to comments from community members who were concerned about impacts to nearby landowners, EPA will include mitigation for visual and noise impacts to nearby landowners and tenants. This mitigation will include construction of a physical direct-line-of-sight barrier along the northern boundary of the site to reduce adverse visual and noise impacts, control drainage, and control site access.

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Waste Disposal, Inc. - Amended Record of Decision

WASTE DISPOSAL, INC.

AMENDED RECORD OF DECISION

Appendix 1

Waste Disposal, Inc. Superfund Site Santa Fe Springs, California 90670

United States Environmental Protection Agency Region 9 - San Francisco, California

REPORTER'S TRANSCRIPT OF PUBLIC HEARING

PROPOSED PLAN WASTE DISPOSAL, INC. SUPERFUND SITE

SOUTH WHITTIER INTERMEDIATE SCHOOL SANTA FE SPRINGS, CALIFORNIA JUNE 14, 2001

Reported by LorRae D. Nelson, CSR No. 7384 PRS Job No. 3-79184



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COSTA MESA 525 Amon Bourevard, Suite 300 Costa Meta CA 92626 714 668 0166 + Fax 714 668 0261

LOS ANGELES 11400 West Olympic Boulevard, Suite 140 701 East Bridger Averue, Sixton Los Angeres, CA 90064 310 473 9003 - Fax 310 473 9373

LAS VEGAS Las Vegas MV 89101 702 648 2595 • Fax 702 63 1

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1	Appearances:
2	
3	For U. S. Environmental Protection Agency Region 9, Superfund Community Involvement Office:
4	Office:
5	DONALD C. HODGE COMMUNITY INVOLVEMENT COORDINATOR
6	75 Hawthorne Street & SFD-13
7	San Francisco, California 94105
8	
9	For U. S. Environmental Protection Agency
10	Superfund Site Cleanup Branch:
11	MARK G. FILIPPINI REMEDIAL PROJECT MANAGER
12	75 Hawthorne Street . SFD-7-1
13	San Francisco, California 94105 (415) 744-2395
14	. (413) /44-2333
15	
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19	REPORTER'S TRANSCRIPT OF PUBLIC HEARING
20	OF PROPOSED PLAN, WASTE DISPOSAL, INC. SUPERFUND
21	SITE, held at South Whittier Intermediate School,
22	Santa Fe Springs, California, on Thursday, June 14,
23	2001, at 7:17 p.m., before LorRae D. Nelson,
24	Certified Shorthand Reporter, in and for the State
25	of California.

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. 6	
. 7	MR_HODGE: Welcome. Thank you all for
	coming. I think we are ready to start the
. 9	proceedings tonight.
19:18:09 10	This is the public hearing on the proposed
11	plan, current proposed plan for cleaning up the
12	waste disposal incorporated superfund site, so thank
13	you all for your interest in coming out tonight.
14	It's a hot night, and it's great to see you here.
19:18:28 15	I'm the community involved coordinator for
16	this site for the U.S. Environmental Protection
. 17	Agency. My role here tonight is to, basically, keep
18	the meeting rolling and to facilitate the meeting.
19	We will give a short presentation tonight,
19.18.49.20	-rif-wou will bear with us, but our primary purpose
21.	here tonight is to take your comments on the plan

that we are proposing for cleaning up this site.

So, again, let me mention that there is a sign-up sheet for people that know they want to comment. If you wouldn't mind signing up on that

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sheet, that would help us organize the comments
later. If no one wants to sign up in advance, 版
during the public hearing part of the meeting
tonight, if people would sign up and speak in any
order that you wish. And if you like, during that !
part of the presentation of the meeting tonight, we
can take questions instead of_comments, if you think
that would be more helpful in making your comments
to us. So we are flexible.
I will mention we have copies of the
proposed plan on the table. If you didn't receive
one in the mail and you would like to take a look at
it, they are over here. We also have copies of the

slides that we will be using tonight for your presentation, of you would like to follow along on paper.

If you didn't sign in the multiple sign-in sheets, we would really like to have your name and other contact information on the sign-in sheet. For one thing, it will help our reporter to-make sure that she has your names correct.

Sc. this is a public hearing and it will be recorded and we will produce a verbatim transcript of the hearing just so you know that's part of the proceedings here tonight.

19:20:52	1	As far as the agenda goes, this is the
	2	agenda for tonight that we have in mind, anyway
	3	I'll introduce some of the people here tonight just
	4	briefly and I'll do a very short, maybe five
19:21:29	5	minuter of presentation on the superfund process,
	6	in gemeral. Some of you may have heard this
	7	-information before, but I just want to give you some
	8	contest for what we are proposing to do with this
	9	site and where we are with the process.
19:21:45	10	Then I'll turn it over to Mark to give you
	11	a little bit more of a detailed history of this site
	12	and what has gone on at the waste disposal site.
	13	and then Mark will describe the plans that we looked
	14	arat before we came up with the plan that we proposed.
19.22:07	15	We will try to keep it short. Like I said, the main
	16	purpose is to take comments from you.
	17.	My name, as I mentioned earlier, I'm Don
	18	Hodge, and Mark Filippini is the remedial project
	19	manager for the site and he will be doing most of
19:22:33	20 -	talking hare tonight.
	21	Also in the audience we have
	22	representatives from the State and County and the
•	23	City of Santa Fe Springs agencies that have been
	24	working on the site.

We also have representatives of the group

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of companies that has been working to investigate 19:22:49 1 and clean up the site. And representatives of a 2 couple of other organizations that we have asked Ao 3 work with the community and the property owners at the site make sure they have some help in dealing 19:23:06 with the mamifications of the superfund cleanup 6 process. So, I won't introduce them all by name but 7. they are there and if you have specific questions, I 8 will try to direct you to the specific party. please see me if there is a particular person you 19:23:25 10 want to talk to. 11 Okay. I promised five minutes on the 12 superfund process, and I'll try to keep it to that. 13 14 19:23:39 15

PRESENTATION BY MR. HODGE

MR. HODGE: As you may know that Congress established the Superfund Program about 1980 for the purpose of helping to clean up the most hazardous abondoned waste sites in the country and they are about, I would say, roughly three broad phases in the cleanup of a superfund site.

The first two -- I am sorry, the first one and last one I guess are relatively short. I would call them, the first one, assessment phase and the

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last one is maybe the implementation phase. 19:24:21 1

> And then in between those two we have what is usually, generally speaking, the longest phase the investigation part of the site, where we try to determine the exact nature of any chemicals of concern, their extent -- how far they spread out at the site, what pathways they might take to affect the health of people or the environment in the area, so that investigation can take some time. It's a fairly detailed undertaking, but we are here at the waste disposal site, hopefully reaching the end of the investigation stage. So it has taken quite a while to get there, but we think we are in a good position to move on with the rest of the site.

> So, looking at this diagram behind me, the site was discovered in 1986 and at the end of the assessment phase, we decided with this site to list it on the national priorities list. And that means we decided it was one of the worst sites in the nation that needed the full superfund process in order to deal with it properly.

Then we moved on into 1988, into the investigation phase, and went through the remedial investigation to determine what was out there and how bad it was through the feasibility study to look

at the different ways to clean it up, and reached 19:25:59 1 the proposed plan stage, which is basically where we 2 are tonight. 3 But we also derived there back in 1983 during that stage, we had a public meeting, much 19:26:12 like thismone, and we received a lot of comment from 6 7

folks at that public meeting. And during the months that followed, as we moved on into the remedial design phase, that we hadn't properly characterized

all the waste at the site.

So you see where we took that U-turn back about 1986 and decided when Andrea Benner became the new-project manager for the site -- we decided at that point to reopen the investigation. Since we were in the remedial design phase, we called it remedial design investigation. We actually went back to do further work on the extent of the contamination of the sites, mainly due to the comments that we were receiving from the public at . that time.

So the result of that is -- actually, it's in this large volume that is over here on the table the supplementary feasibility study which resulted in the proposed plan that we are here to discuss tonight.

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19:27:25	1	I should mention that all of these stages
	2	that we are talking about is documented. Each
	3	milestone generally has a document attached to it
	4	and those documents are available for anyone to
19:27:35	5	review. And all the documents associated with the
	6	site are in the record center in our office in San
	7	Francisco.
	8	Also, every important document that we use
	9	to reach our decision would be in the administrative
19:27:51	10	record that's housed here locally, so if you want to
20,0	11	review the documents that we produced, they are all
	12	available to you.
	13	So I think that probably brings us pretty
	14	much up-to-date and where we are at. Now we are
19:28:35	15	back at the proposed plan stage. We have an idea of
	16	what we need to do to clean up the site in the most
	17	safe and effective manner for the community and
	18	everyone affected by the site and so at this point I
	19	think I'll let Mark talk about the detail of what we
19:28:53	20	have done so far and what wempropose to do to clean
	21	up the site.
	22	I pause here briefly to see if there
	23	are any questions about the process so far, the
	24	superfund process in general.

I think I kept it to five minutes. I'll

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19:29:12	1	turn it over to Mark.
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	3	PRESENTATION BY MR. FILIPPINI
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19:29:33	. 5	MR. FILIPPINI: First, I am Mark
-	6	Filippini. I am the Remedial Project Manager for
		the site; as Donlindicated. I've been involved in
	8	the site for many years. Started assisting Andrea
	9	Benner several years ago in remedial investigations
19:29:57	10	Est the site. And I think I know most of you here.
	11	I want to thank you for coming out here today.
	12	What I want to do in the next 20 minutes
	13	or so is put together a background, the historic
	14	background of the site and then sort of get in
19:30:14	15-	and give you some general description of the
	16	alternatives that we looked at for remediating the
	17	site and our preferred alternative, what we think is
	18	the best way to go forward that meets the
	19	community's needs and addresses all of the concerns
19:30:33	20%	with respectato regulatory concerns and the
	21	community concerns.
	22	I'll sort of also explain and get into why
	23	we selected our alternative, how it fits in with the
	24	City of Santa Fe Springs. They are in the middle of
19:31:03	25	the master planning process to redevelop the site so

19:33:05 25

I will try to sort of pull all of those things 19:31:07 together. 2 This is an aerial view of the site, which 3 I had. Can you roll it? This is an aerial video 4 that was taken several years ago. As you can see, 19:31:35 the site is located just west of here. The street right down parallel to the horizon there is Santa Fe 7 Springs -- excuse me, Los Mietos Road. Greenleaf 8 Boulevard is here to the right. Los Nietos, I am sorry, is at the bottoms Santa Fe Springs is at the 19:32:00 10 top. I see some of the general features of the 11 site. The high school, the residential area, Fedco 12 property. 13 Go to the next slide. This is a little 14 bit better detail aerial photo of the site. Again, 19:32:28 15 Santa Fe Springs, Greenleaf Avenue. Shown there is 16 a green circle in the center of the site. The blue 17 dash lines is the boundaries. The green circle 18 represents the approximate location of the former 19 reservoir that is the wain feature of the site. It 19:32:49 20 is a concrete-lined reservoir. It is approximately 21 20 feet deep in the center and it represents, as I 22 said, the main feature of the site where disposal 23 occurred. 24

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That reservoir -- go to the next slide --

19.33:09	1	was constructed about 1920 and at about this
	2	time, which is about 1945, it was converted to oil
	3	storage, product storage into a disposal reservoir
	4	that starmed accepting oil field waste. And between
19:33:28	. 5	1945, warm it operated, and the early 1960s, it
	6	accepted various oil field waste as well as some
	.2	
	8	facility and there was no regulation at that time,
	9	so many different types of hazardous materials were
19:33:48	10	brought to this site.
	11	One of the main features this shows to the
	12	right are some pits. Actually, Greenleaf Boulevard
	13	is not constructed at this point. And they accepted
	14	also go to the next slide also wastes of
19:34:08	15	various types, certainly thinner you can see the
	16	thinner thicknesses, less thicknesses than the main
	17	reservoir, but as you can see what arose between the
	18	1940s and 1960s was placement of those wastes in
	19	those pits. And then later development, as we see
19:34:31	20.	hereright on top of those, and that is sort of the
	21	main component of the remedy that we have to deal
-	22	with going forward.
,	23	Let's go to the next slide. This is the
	24	aerial photograph of the site as it generally
19:34:46	25	currently exists. Again, the green outline showing

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the approximate location of the concrete-lined reservoir that is now under anywhere from 5 to 15 feet of soil. And as you can see, one of the areas that have pits, it was around the == just about around the entire perimeter of the site where there was some placement of wastes. And each of those parcels where many of you have businesses or are tenants, have some amount of this waste material that extends underneath your property.

Let's go to the next slide: This shows the limits of the waste. It shows the limits of the waste and the dark outline, again the green outline of the former reservoir.—And as you can see, it extends under several buildings of the properties. This is what, basically, our remedy will be addressing, the waste not only in the center part of the reservoir, but also the waste that extends around the perimeter.

Another driver is soil gas. As these wastes decay, they can generate soil gases they. Soil gases are generated beneath the ground and can migrate some distances from the waste source. It can create problems for occupants on the property. And types of soil gas that we found that are out there are vinyl chloride, methane, benzenes and

19:36:31	1,	several other components that have to be addressed.
	2	Let's go to the next one.
	3	What I will be doing here now is going
	4	through your five alternatives.
19:36:42	5	The first one is easy is because that
	6	is no action. Compare all the other active
	_7	alternatives to that so alternative one is,
	8	basically, what risks or what conditions are under
	9	the current conditions and the other alternatives
19:37:04	10	are compared against that to see what improvements
	11	are made based on the elements of the alternatives,
	12	so I won't be discussing alternative one. It is no
	13	action alternative.
,	14	What I will do is go through the four
19:37:24	15	active alternatives.
	16	Alternatives two and three are, basically,
	17	capping elements, primary element being the primary
•	18	element of the remedy, and elements four and five
	19	involve extensive excavation in and around the
19:37:47	20	perimeter-of-the site and, specifically, in parcels
	21	that were affected by buried waste.
	22	So alternative two, I'll tell you, is our
	23	preferred alternative. I'm not giving anything
	24	away, and I'll quickly go through alternative two.
19:38:09	25	It consists of an RCRA equivalent cap.

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Many of you asked what an RCRA equivalent cap was 19:38:20 1 and I didn't do a great job of explaining it in the 2 proposed plan. 3 An RCRA equivalent cap is, basically, a 4 state-of-the-art cap, that it is one of the most 19:38:23 5 protective types of caps. The cap has five 6 components, including a base material and cover, and 7 it includes a flexible membrane liner in the center 8 Above that is a liquid collection system to 9 collect precipitation, and beneath-it is a soil gas 19:38:43 10 or collection system that can be piped and plumbed 11 and then directed to discharge or treatment to 12 systems that can collect any gas that might be 13

Continue on.

to that portion of the site.

The other elements of the remedy includes, basically, a collection system that includes wells that go into the center of the reservoir and collect liquids that may be accumulated. Liquids are sort of being collected in several of these wells that we now have. They are now at a fairly slow rate. We went through a fairly extensive liquid removal process over the last summer and year 2000.

accumulated beneath this cap. It is, as someone

requested in the past, the best-technology to apply

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Another element is a monofil cap and 19 39:39 1 this is probably what is going to affect most of the 2 property owners out there. It is a fairly simple 3 cap. It encrmpasses only clay or clay, some with 4 asphalt pavement, but it will meet the design 19:39:54 5 criteria established by the State of California to 6 be protective many as you can see, it affects many 7 of the perimeter parcels. For the most part, those would be pavement where there would be a need to 9 have chary capping otherwise. 19:40:12 10 Another element that is also very 11 important is the bio venting barrier system. 12 this case what this will do is also add oxygen into 13 the surface -- the subsurface, to allow these gases 14 to degrade and decompose naturally. It's part of 19:40:31 15 the reason why they degenerate is because it's 16 not -- it's in a no oxygen environment. So, by 17 adding oxygen into it, it degrades those, 18 essentially, dangerous gases and prevents them from 19 migrating any further from this sort of zone we have 19:40:49 20

Then the other major components are engineering controls, since many of the buildings are overlaying on the waste. Waste is beneath the pads of the buildings. There will have to be

19:41:12	1	engineering controls placed on many of these
	2	buildings and that can typically be either certain
	3	venting systems or perimeter venting systems that
	4	may go around the outside of the buildings.
19:41:24	5	Actually, active venting systems can go on the
	6	inside of the buildings. There are several
	7	different things that can be applied.
	8	There are about three buildings in our
	9	estimation that cannot - that we believe will not
19:41:39	10	be able to have engineering controls because of the
	11	thickness of the waste beneath them and those
	12	locations and those buildings will likely have to be
	13	removed.
	14	I have already spoken to every one of the
19:41:54	15	property owners and tenants that are involved with
	16	those buildings, so if I haven't spoken to you, then
	17	your building is not one of them. But those that I
	18	have talked to, as we get into the design phase in
	19	the spring, we will get into more details of what
19:42:11	20	will have to happen the is possible that they might
•	21	be able to be saved, but our general consensus is
	22	they will have to come down. There are only, like I
	23	said three that I know of now.
	24	AUDIENCE MEMBER: Mark, What does the blue
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indicate?

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19:42:35 1	MR. FILIPPINI: The blue are buildings
2	that have the engineering controls. These other
3	buildings will likely not need engineering controls.
4	The blue are baildings that will need some kind of
19:42:40 5	engineering controls.
6	AUDIENCE MEMBER: (Inaudible question).
. 7	MR. FILIPPINE: Actually, several of these
8	buildings are blue buildings, include the three that
9	I am talking about.
19:42:57 10	T-AUDIENCE MEMBER: (Inaudible question).
11	MR. FILIPPINI: They are not I don't
12	think we have a problem there.
13	AUDIENCE MEMBER: Will you indicate the
14	places the three buildings you discussed?
19:43:04 15	MR. HODGE: Sorry to interrupt you, but
16	when you have a question for Mark, I don't think
17	Mark minds taking the questions now, but would you
18	identify yourself?
19	MR. DALLITZ: Ron Dallitz. Buffalo Bullet
19:43:24 20	Company.
21	Mark, would you please indicate the three
22	buildings that you were discussing?
23	MR FILIPPINI: One of those was yours
24	here, and Timmons has a structure, also. And the
19:43:34 25	Brothers Machine Tool is one we also considered,

okay. Let's go forward. 19:43:41 1 Alternative three, let me quickly explain 2 what alternative three is before we get into it. 3 We are -- one of the objectives we have 4 in the Superfund process is to the maximum extent 19:43:55 5 possible, is after we place our remedy on the site, 6 it can be used by the community as much as possible. 7 And the City of Santa Fersprings has taken 8 the initiative in applying for and they received a 9 \$100,000 grant from the EPA to part together a master 19:44:18 10 plan for the redevelopment of the site. Alternative 11 two, which I just went through, allows for, to the 12 maximum extent possible, the current uses of the 13 site, meaning, most of the buildings will be 14 standing there whether we come in and put that 19:44:39 15 EPA feels it is as protective as we 16 remedy down. We are sort of done at that stage. can make it. 17 What alternative three shows is that the 18 City comes in and implements their main objective on 19 redevelopment of the site over the next -- parts of 19:45:01 20 the site that got redevelopment over the next two to 21 three years, other parts may not be redeveloped for 22 five to ten years, depending on market forces and 23 the like. Andy L-zzaretto is here with the City of 24 Santa Fe Springs to explain some of those elements 19:45:17 25

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PUBLIC HEARING

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to you.

What we want to do is show, basically, what a site would look like with redevelopment in place on top of the site. Like I said, I'm done at alternative twee. The City then can come in at the direction of the State of California under guidelines spelled out and then place the elements of alternatime three, so we put alternative three in the feasibility study to show what it will look like in the future, way out in the future. But at any one time it will likely look like a combination between alternative two and alternative three.

So let's go through alternative three. . It has the same equivalent cap, the same collection system,-the monofil cap, the bio venting barrier system and stop here. And other what we call redeveloped areas are shown here which is basically the remainder of the site.

Then the next slide shows the buildings that could be potentially removed in the future. will likely happen in phases. We anticipate the main portion of the site, the least developed will go first, then either of these two major areas here at some time in the future.

Then new building pads, a new development

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basically can placed on top of this. We have the 19-46:56 1 technology now to place things on top of these caps 2 to make them part of the cap and this allows for 3 beneficial reuse of the property. Here on the RCRA cap it can be used for low impact uses, so that is, 19:47:09 5 basically, the elements of alternative three. 6 Let me quickly go through alternative 7 Alternative four -- do one more -- is what we 8 call the excavation component. I want to show that 9 there has been some amount of interest in 19:47:26 10 considering removing soils around the perimeter of 11 the site. This shows removals of the soils as they 12 exist now beneath these areas. There is one area, 13 eight and six. The red buildings would have to come 14 down in order to facilitate the removing of that 19 - 47 : 48 15 soil. The soil would then be placed back beneath 16 this cap in this reservoir. 17 In doing this, the elevation of the 18

reservoir would go up approximately six feet from its current elevation. One of the main problems we have is twofold. One, it does not allow for very easy reuse of the property by the City of Santa Fe Springs because it creates even more severe gradient changes on the property.

Secondly, it does not -- we do not gain a

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whole lot of benefit from the -- because the capping, as we can put it down, keeps it as protective as moving it. And if we had to move it and excavate it and open that up, it creates a risk of exposure to analyze amount of soil to the community residents and the community members surrounding it, so we are really not too comfortable with opening up these areas and doing a lot of excavation and hauling dirt from the site.

Show you five and then about done here. Four will have the same components, RCRA cap, bio venting barrier system -- and then five.

extensive waste excavation. It addresses all wastes that exist outside of the central -- what is called area two, central disposal area. And again this is the -- two shows you the number of buildings in red here that would have to come down for that. Being a larger -- typically larger volume of waste, that creates come, more exposure to the community as they go through the excavation and replacement of the waste back underneath this main cap, that would result in an increase of the central cap of approximately nine feet. It is currently about 15 feet above street level so it would bring it up

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19:50.22 1	to approximately 24 feet. So some of the problems
2	associated with alternative four.
3	associated with alternative four. It would then have a RCRA cap over the
4	entire area. Same components, take control bio
19:50:41 5	venting system, and that's basically the components
. 6	of alternative five.
7	How did we do the analysis and how did we
8	arrive at alternative two as our preferred
9	alternative.
19:50:57 10	The Superfund requires us to look at nine
11	criteria, which are listed here, and they are also
12	listed in your proposed plan mailer. Each can't
13	even evaluate each alternative if mit doesn't meet
14	the two regulations, with the exception of
19:51:17 15	alternative one, being the no action alternative.
16	They all have to meet those first two.
17	The remaining criteria are ones that we
18	looked at and balanced out. Is there a short-term
19	protective? Is it a long-term effective? Is there
19:51:33 20	going to be short-term risks, long-term risks,
21	future use of the site, these whole litany of these
22	things starting coming into play, how implementable
23	it is, as well as you can see on the bottom there
24	acceptance by the community and by the State.

So in our analysis, the bottom line was

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19:53:46	1	wants to comment, be able to comment. We have at
	2	least an hour to take comments, so I'm hopeful that
	3	will be enough time until the janitors tell us to go
	4	home.
19:54:02	5	I do want to mention if you are not
	6	comfortable getting up and speaking in public,
جسانوم د	7	there are a number of other ways go to the next
	8	slide there are other ways you can comment. We
	9	will take comments in writing, any form, fax, letter
19:54:22	10	or on the comment sheets that are over on the side
	11	table, if you want to write up something and leave
	12	it with us tonight, we will respond to that. Mark
	13	will be writing this summer. The addresses for
	14	mailing or faxes or e-mailing us are all in the
19:54:41	15	proposed plan, so if you don't have those, please
•	16	pick one up. And if you have any other questions,
	17	contact Mark.
•	18	But with that, why don't those of you who
	19	want to comment, if you could just line up in the
19:54:59	20	center aisle, does that work for you? -Or whatever
	21	you feel like coming up, that's fine, questions,
•	22	comments, whatever, we will take at this time.

19:55:35 25

19:55:35	1	AUDIENCE QUESTIONS				
	2	MR. TIMMONS: My name is Ed Timmons.				
	3	MR. TIMMONS: My name is Ed Timmons.				
	4	I have a property that you mentioned, one of the				
19:55:39	5	buildings that will come down, and the time-frame				
	6	between your taking my building down and the				
_	. ~7	redevelopment/ if you want to redevelop my area,				
	8	what do I down the meantime? What's the time-frame				
	9	and what sthe alternative in between? I think				
19:55:59	10	there is another gentleman here that has a property				
	11	in the same situation, or maybe two gentleman.				
-	12	MR. FILIPPINI: As I understand, the				
	13	question is what do you do between now?				
	14	MR. TIMMONS: My building is coming down.				
19:56:15	15	The redevelopment may not take place on my property.				
	16	MR. FILIPPINI: You have a structure				
	17	coming down; is that correct?				
•	18	MR. TIMMONS: Yes.				
	19	MR. FILIPPINI: That is a problem with				
19:56:27	20	respect to				
•	21	MR. TIMMONS: To me, especially.				
	22	MR. FILIPPINI: There are things that we				
	23	might be able to do to see about accommodating you				
	24	in the short term				
19:56:38	25	MR. TIMMONS: I don't want to move my				
		}				

-	1					
19.56:41	1	plant twice, that's the thing.				
	2	MR. FILIPPINI: I understood your's was in more of a sheltered structure?				
•	3	more of a sheltered structure?				
	4	MR. TIMMONS: Yes. It's an open air 🤫				
19:56:48	5	structure so I wasn't sure if you were bringing it				
	6	down or what. You said you were.				
	7	MR. FILIPPINI: My sense was given it was				
	8	open air and difficulty in trying to get a cap				
	9	around it, it might be it might have to come				
19:57:04	10	down. It might also be possible if there was no				
	11	other alternative, to address finishing off the cap.				
	12	So all I can say is we can try to accommodate it as				
	13	best we can.				
	14	MR. TIMMONS: Okay.				
19:57:37	15	MR. HODGE: I just got a note that I need				
	16	to remind people when you state your name for the				
	17	transcript, also give your place of residence and				
	18	affiliation.				
	19	MR. FILIPPINI: We can talk about the				
19:58:09	20	redevelopment process, if that's something you would				
	21.	also like to get into, if everyone else has made				
	22	comments.				
	23	MF. HODGE: I know some of you out there				
	24	have things that you want to say to us when you are				
19:58:26	25	ready. I am sorry the proceedings are what they				

19:58:29	1	are, but we do want to make sure they are on the
	2	record. In the meantime, let me give you some
	3	In the meantime, let me give you some
	4	ideas. First of all, if there are any alternatives
19:58:41	5	that you like that we have presented, feel free to
	6	express your preference.
	7	If there are any problems with the
	8	alternatives that you feel we need to know about,
	9	please let us know. If you just think we are doing
19:58:59	10 .	a great job, you canstell us that, too.
	11	MS. MAPLE: Pam Maple. My dad and my
	12	sister and I have property on Santa Fe Springs Road
	13	in Area 1.
	14	You guys are doing a great job. I have
19:59:27	15	concerns regarding, I guess, the redevelopment and
	16	things like that, but first, let me address if you
	17	go with alternative two, will our property be deemed
	18	sellable if we wanted in the future to sell the
	19	property? It would be all okay or we would have
19:59:53	20	problems selling2-lalt-would be cheaned up as far as
	21	the State and everything is concerned or would there
	22	be stipulations on the sale of the property at some
	23	time in the future?
	24	MF. FI'IPPINI: You want me to answer
20:00:08	25	that?

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MS. MAPLE: Yes.

MR. FILIPPINI: The question is what does one -- the remedy is put into play, how does that affect the sellability of the property and there have been several property owners that are sort of waiting to see if other properties get them ready to sell for sometime. And it has been held up because of the Superfund process.

Our attorneys here might be able to correct me if I am wrong, but each of the property owners will have to enter into the settlement agreement, and that's, basically, to allow -- to get an agreement between you and EPA and the State of California for, primarily, access to the site and other controls, such that when we do put the cap on, you maintain or -- you don't maintain the cap, make sure you don't damage the cap in any way and allow the State and the people maintaining the cap to continue their maintenance of the cap.

It's my understanding that once that agreement is entered into, and that typically occurs even before the remedy is constructed, once that agreement is entered into, your property is typically sellable. My attorney is nodding my head.

MS, MAPLE: I think that's that.

20:01:50	1	MR. FILIPPINI: Those can happen, as we
	2	talked about, we are expecting those discussions
	3	starting next month with each of the property owners
	4	and they can typically be dispatched within several
20:02:03	5	months. I know several property commers are looking
٠	6	forward to getting that going.
	7	MSMAPLE: . I also wanted to ask, the
	8	\$100,000 that the City was given as a grant from the $^\prime$
	9	federal government, what does that buy?
20:02:39	10	MR. FILIPPINI: The City used or is using
	11	that money to go forward with developing a master
	12	plan. As many of you might know, the entire of the
	13	site is has been deemed by the City as a
	14	redevelopment area, which by definition gives it
20:03:01	15	certain legal status and gives the City certain
	16	jurisdictions over the property for future
	17	development, so it is already a redevelopment area.
	18	What they did with the grant money and
	19	what they proposed to do on their grant, and have
20:03:21	20	been doing, is developing a master plan, which can
	21	be a bit of a lengthy process. It is done deemed
	22	done by a registered architect and the architect
	23	goes through and looks at the site, the limitations
	24	on the site and sart of starts coming forth with
20:03:41	25	alternatives that they think they can go forward

20:05:29 25

with, based on the elements the City would like to 20:03:45 1 see in that redevelopment. Parenthetically, the site as a Superfund 3 site, can never be used for residential, schools, 4 hospitals or day-care centers so their master plan 20:04:01 5 sort of had to accommodate that. But, primarily, 6 the money they are using is going towards the ·7 -architect to develop the master plan and hold public 8 meetings, public input of the process. 9 It also involved hiring landscape 20:04:23 10 architects to give ideas, ideas on what can be made 11 part of the master plan, and also real estate 12 experts can help with the relocation or start the 13 process of the relocation for some of the property 14 20:04:45 15 owners. MS. MAPLE: So if some of us, as property 16 owners, have to relocate or our building has to come .17 down, what money -- how are we compensated for that? 18 Do we just suck, or. . . 19 MR. FILIPPINI: Again, it's a complete - 20:05:14 20 separate process, actually, than the Superfund 21 remedy process. Remember, the City's redevelopment 22 lays on top of the federal run. 23

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years and consultant for many years so I know the

I was a planning commissioner for many

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20:05:32	1	process so I'll answer the question.
	2	You, under any redevelopment area, under
	3	any scenario, you are covered under the State of
	4	California Relocation Act, which is consistent with
20:05:49	5	the Federal Uniform Relocation Act. And it provides
	6	rights and benefits to property owners and tenants
	7	under the process of redevelopment and relocation.
	8	And Andy Lazzaretto can provide you with all of that
	9	information.
20:06:06	10	You are compensated fair market value of
	11	the property, and finding new properties, there is a
	12	whole host of benefits that are available to you,
	13	and the City of Santa Fe Springs can provide you
	14	with the literature packages.
20:06:24	15	MS. MAPLE: That's separate from the EPA?
	16	MR. FILIPPINI: That's very separate from
	17	the EPA. Like I said, all I'm doing is handing off
•	18	the remedy that the City can use.
	19	In fact, we have even there is a
20:06:38	.20	possibility if their redevelopment process goes
	21	forward, especially on the areas along Greenleaf and
	22	the central portion of the property, that can occur
	23	simultaneously with the construction of the cap. It
	24	saves a lot of time and saves some amount of money,

and basically allows sort of an integration of the

20:07:04	1	construction of the remedy cap.
	2	MS. MAPLE: And as far as the alternatives
	3	go, you are listening to our input and then you will
	4	decide, you, the EPA, will decide what happens to
20:07:20	5	the site as far æs which alternative you use?
	6	MR. FITTEPPINI: Right, with the elements
	7	of alternative two.
<i>j</i> 2	8	Remember, it stops at redevelopment, but
	9	the protective elements of alternative two and all
20:07:43	10	those elements are ones that we put forth as our
	11	recommended preferred alternative.
	12	I know we have had one reason I'm not
	13	insulted we hare not getting a lot of comments, is we
	14	have meeting together for years now, especially over
20:08:04	15	the last year we have had many meetings where we
	16	really try to be straightforward in the direction
	17	where we thought we were going with this remedy and
	18	what it might look like. And I think no one should
	19	be confused that we are sort of formally here
20:08:23	20	talking about things that most of us have already
٠	21.	talked about. So I think that's the process.
	Does that answer thank you.	
	23	MR. STANSELL: Vernon Stansell. Stansell
	24	Brothers. We lea-e a building that's in the blue
20:08:49	25	zone. That's one that you said that you would

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20:08:52	1	that would require venting. I was wondering what
	2	process that would involve?
	3	process that would involve? MR. FILIPPINI: It could be either weight
	4≃	really won't know until we get to the design phase
20:09:07	5	and that design phase will be coming up in the next
	:6:-	spring. We anticipate about February or March of
2374	7	Thext year is when we will start to be looking at
	8	each of the buildings, taking a look at specifics on
	9	the buildings, like its proximity to known gas hot
20:09:2:8		spots. We will look at its foundation condition,
	11	its building, its construction, its existing
	12	ventilation system.
	13	Many of these buildings we have been
•	14	monitoring the air inside a number of these
20:09:44	15	buildings for a number of years and we have not
	16	had any derogatory hits from the soil gases so it
	17	appears that, for most part, there is no problem
	18	associated with the soil gas.
	19	What has to be remembered is this remedy
20:10 <u>-</u> 01:	= 20i=	has to be long-term protective and we are typically
	21	shooting for 30 years. So those are the kind of
	22	analyses to no end. We will make sure we are
	23	completely comfortable with the foundation. We may
	24	recommend sealing the foundation, and in many cases
20:10.24		it might involve perimeter soil gas control and
20.10.24	23	To magne amount product board gas control and

20.10:25	1	venting system so it could be one of a number of					
	2	things. We will be meeting with each tenant and					
	3	owner individually as we go forward with the design					
	4	element to talk about what works best and what we					
20:10:37	10:37 5 may have to do with each property.						
	6	MS. STANSELL: Karen Stansell, the lesser					
	7	part of Stansell Brothers.					
	8	We are right in front of Buffalo Bullet					
•	9	and C & E, in the same driveway, and just a short					
20:10:57	10	distance. Now Our building is not what is the					
•	11	destruction? How is that going to impact us? Do					
	12	you have any idea?					
	13	MR. FILIPPINI: Well, you have to remember					
	14	a monofil cap will have to go down everywhere that					
20:11:19	15	wastes extends, and I m talking about the parcels					
	16	that extends around the perimeter of the site, this					
	17	is the parcel where your business is in, so there					
	18	will be some element of construction associated with					
	19	that.					
20:11:31	20	The existing asphalt would have to					
	21	come up, some modest amount of regrading for					
	22	consolidation, so it's workable for the use of the					
	23	property. Then the clay cap, then the asphalt on					

top of that.

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MS. STANSELL: You are talking about the

20:11:53	1	tank?
	2	MR. FILIPPINI: No. I'm talking about
	3	MR. FILIPPINI: No. I'm talking about your driveways and your back parking lots.
	4	basically. Many of you I think each of you know
20:12:03	5	the sort of the general extent of the waste in your
	6	parcel. Anywhere that we have identified waste,
	_ .7	there is going to have to be a cap placed down
	8	there. That will mean that existing pavements will
	9	have to come up and a cap put down and a final cap
20:12:18	10	will typically be a pavement again that you can use
	11	and drive on and park on.
	12	Now, in the specific parcels that we have
	13	talked about the building the Buffalo Bullet
	14	building.
20:12:32	15	MS. STANSELL: I was thinking about
	16	hauling the building away.
	17	MR. FILIPPINI: There is not much to the
	18	buildings so the demolition would not be that
	19	typical but it would have
20:12:43	20	MST STANSELD: Buffalo Bill wants to know
	21	when.
	22	MR. FILIPPINI: Well, we have already had
	23	this conversation.
	24	The official decision on whether or not it
20:12:57	25	will need to come down will come to the design

20:13:01	1	phase, as I mentioned, in the early spring 2002.
	2	What I told all the property owners and tenants is
	3	sort of look for look for to be contacted
	4	about that time when we get into that phase and we
20:13:18	5	will meeting with each individual owner and
	6	tenant, talking about the engineering controls will
	7	have to be placed, but the placement of the cap, it
	8	has ±0 go along there, also. And there is timing
	9	elements, too.
20:13:34	10	The entire cap is not going to be done
	11	in a couple of weeks. It will have to be phased in,
	12	working with the construction people and the PRPs
	13	who are doing the work.
	14	We will work out a schedule as to when
20:13:50	15	exactly that will happen, but approximately next
	16	spring is when we start talking to individuals about
	17	how it will affect their specific structures and
	18	their parking areas.
	19	AUDIENCE MEMBER (UNIDENTIFIED): What's
20:14:07	20	the timing of construction?
	21	MR. HODGE: Please use the microphone,
•	22	MR. WALTER: Greg's friend. We have a
	23	question. My name is Gene Walter and I own two
	24	buildings on the cite, as you know. They have not
20:14:31	25	been indicated as one of the ones coming down.

I'm just wondering what the time-frame is 20:14:34 1 from the initial plan construction redevelopment 2 area to the time you get to knocking down our 3 building, and are we talking about five years? Eight years? I have got tenants that are going 20:14:50 . 5 nuts. MR. FILIPPINI: As you recall, the 7 question of when the building -- the building 8 doesn't need to come down for the remedy. MR. WALTER: I understand that. 20:15:03 10 MR. FILIPPINI: It's the City's track at 11 that point, and the City does not currently have a 12 developer in mind ready to bulldoze your buildings. 13 All we are doing at this point is -- speaking of the 14 20:15:17 15 City. MR. WALTER: But once they started 16 developing, the designated areas, how long will it 17 be before they start attacking the blue buildings. 18 MR. FILIPPINI: No way of telling, because 19 the first phase could include only that parcel along 20:15:28-20 Greenleaf and the center parcels and the remaining 21 may not go into development for five or ten years. 22 It could also occur a year from now, but 23 until the City has a developer at the plate or at 24 the table ready to talk, they really can't give you 20.15:48 25

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a time-frame. 1

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That is one of the difficulties in trying to explain this. We have had this conversation with many of the property owners and the tenants, especially those who aren't interested in moving. There is that unknown and it is something that comes with the territory when you are in a redevelopment zone, even maybe it wasn't there as part of the Superfund process, you would be going through this anyway. The same things you would be going through.

Yeah, you are in a redevelopment zone. All you are doing is waiting until the City gets a developer to come in and get a -- we don't know what the timing will be. But it's all done under a major public process. There will be hearings on it. There will be discussions. It will all be done in the open.

I also want to mention, when we get to the design phase, there will be a series of meetings also with the property owners and public which can come in and talk about the details of the design and the details of the construction as we go forth because there will be issues. I'm sure concerns about dust control and public safety as we go into the construction phase, I am sure they will want to

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20:17:19	1	know what's going to happen and when. This will be
	2	a process the same as the redevelopment.
	3	a process the same as the redevelopment. MS. SANFORD: Stephanie Sanford. Technical Outreach Services To Communities.
	4	Technical Outreach Services To Communities.
20:17:38	5	As you mentioned, the community is
	6	concerned that dust may spread contaminants, and
	7	alternatives four and five talk about an
	8	excavation is a problem maybe because of dust.
	9	Will you talk about how that is different
20:17:56	10	in redevelopment in alternative three, how that will
	11	be managed?
	12	MR. FILIPPINI: Good question.
	13	One of the restrictions and parameters
	14	that were placed on the architect, and making his
20:18:14	15	life miserable, is all of these concerns under the
	16	federal and state requirements that this is a waste
	17	and we will be putting buildings on top of this
	18	waste. And what he could and could not do, so one
	19	of the primary elements of the redevelopment will be
20:18:34	20	that the waste cannot be moved in large quantities.
	21	That's not to say a piling may not have to go
	22	through a small amount of waste or some thin veneers
	23	of waste cannot be reconsolidated.
	24	Primari'y, the major portion of the waste
20:16:55	25	that exists around the perimeter of the site cannot

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20:18:59	1	be impinged upon. The State of California is there
	2	telling them they can't do that. So their buildings
	3	have to go on top of that. Their utility corridors
	4	have to go around that. Their drainage sequences $\overline{\mathbb{W}}$
20:19:16	5	and landscaping has to accommodate all of that. So
	6	the whole purpose of putting those restrictions is
	_7	to assure that when redevelopment does occur, that
<i>:</i>	8	massive amounts of waste are not moved around and
	9	exposed during that construction period.
20:19:36	10	And they will be like any other
	11	construction operation. There will be dust control
	12	measures that the Los Angeles Air Board has very
	13	very strict dust control measures. And there will
	. 14	be monitoring that any controls that have to go in
20:20:06	15	on construction, to make sure those exposure will
	16	not occur. And technology exists. All sorts of
	17	things, but primarily will not be digging into that
	18	gue and that waste.
	19	As weeks ago forward with the
20:20:22	20	redevelopment alternative two, we did not want to
	21	get into that tens of thousands of cubic yards of
*	22	waste.
	23	MS. C. SMILEY: Christine Smiley. I'm a

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alternative two. which is the preferred one, and

resident in Whittier, east of the site.

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three, when will we know which one you have chosen and what steps will you go through to make the absolute alternative?

MR. FILIPPINI: As I said, they are basically the same alternative. All it does is show you what the City could do with the site after alternative two has been constructed, so is your general question how?

MS. C. SMILEY: Out of all the alternatives, when will it be chosen?

MR. FILIPPINI: Oh, the process of selecting. The question out of all the alternatives, what is the process. That is called the record of decision. We have this comment period now that will run through July 2nd in which I take public input and anyone can comment, either the state, county can comment on what we propose.

Then I will draft up a Record of Decision, which has all the background documents. It's a little bit more complicated than the feasibility process, but I can control it more because I write it. But I go through a pretty descriptive process of what the status of the site is, conditions of the site, the remedy that we selected, how we arrived at that remedy, response that we received from the

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community on the remedy. I write that up and that gets signed by my management chain all the way to the regional administrator, which is a fairly high level at EPA, with special notices going out to state of California.

Then the ROD is entered into the administrative record. Then there will be a public decision. The Record of Decision has been entered and a facts sheet will be issued and then that's, basically, the green flag for us to start working with the PRPs in getting the schedules set up and getting ready to go to the design. There was a considerable amount of design done back in the early nineties when it started taking off.

MS. C. SMILEY: Do you have an estimated ime-frame?

MR. FILIPPINI: Yes. I anticipate having the Record of Decision completed by the end of the summer, possibly September, October, then we will be starting design.

We anticipate starting design in October, November. And then the WDIG, the group who has indicated interest in constructing the remedy, is anticipating goin to construction next -- next spring, late spring. We will be in the design

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20:23:58	1	phase, as I mentioned, between, say, November
	2	November, December we will be doing stuff on the
	3	actual sort of blueprint elements. Then January,
	4	February I anticipate going out to the each of $\overline{\mathscr{G}}$
20:24:11	5	the landowners and tenants and talking about the
	6	individual buildings.
	7	By then we will have master schedules
	8	developed. There will be public meetings during
	9	that process. We will set out where we are at on
20:24:25	10	the schedule. But the intent now is to, hopefully,
	11	get ground broken on the first phase of construction
	12	now during the construction season. I may ask the
	13	project navigator are we anticipating about a
•	14	two-year start to finish? One year to 18 months,
20:24:58	15	and that was Roberto Cuga, the project manager.
	16	MR. SMILEY: I got a little question here.
	17	My name is Lloyd Smiley, resident of
•	18	unincorporated area L.A., Whittier. I live within
	19	just a block.
20:25:27	20	Can you tell me well, this started
	21	about '97, '98. It had a ROD, then they already
	22	made their decision and capped it. Can you explain
	23	the difference, other than talking about some of the
	24	buildings coming down, what's the difference between
20:25:47	25	the cap then and the ROD today, four years later,

other than a couple million dollars? 20:25:54 1 MR. FILIPPINI: Very good question. 2 Did everybody hear the question? 3 Fundamentally, the difference between the cap design 4 that was proposed and the Record of Decision in 1987 20:26:07 5 versus what it is now. 6 Primarily, the difference is our 7 understanding of the limits of the wastes around 8 the perimeter of the property, in the parcels 9 20:26:26 10 surrounding the main reservoir in the area. gained a lot of knowledge on that. We gained a lot 11 of knowledge on the condition and extent of soil . 12 gases around the perimeter of the site. 13 We have done some work with -- there was a 14 considerable concern from the public about liquids, 20:26:48 15 both within the reservoir and outside the reservoir, 16 and we spent a considerable amount of resources 17 evaluating the location and nature of those liquids, 18 and we went forward, as I mentioned earlier, about 19 one year treatability study where we actually 20:27:07 20 removed approximately 200,000 gallons from the 21 central reservoir, so we gained a lot of knowledge. 22 The other up side of this whole thing, it 23 has given the City of Santa Fe Springs time to look 24 into the beneficial reuses and what they would like 20:27:33 25

20:29:15 25

1	to do with the site. That's one of the big benefits
2	our remedy addresses is the ability how to the
3	maximum extent possible to help the City come in and
4	do future redevelopment of the site. So that is $\frac{1}{\sqrt{2}}$
5	another difference in the cap between then and now.
6	Primarily, the main cap over the central
7	reservoir, I believe it is identical to the RCRA cap
8	as proposed then, which is state-of-the-art then and
9	it is state-of-the-art now. So there is some
10	difference in the limits, as I said, liquid soil
11	gases that we know more about.
12	MS. SANFORD: Stephanie Stanford again.
13	Would you say a little bit about water
14	quality monitoring?
15	MR. FILIPPINI: Sure. The question is
16	groundwater monitoring. Groundwater we are talking
17	about?
18	MS. SANFORD: Yes.
19	MF. FILIPPINI: There are approximately 32
20	monitoring wells surrounding this site. It's a
21	hydrogeologist. It's a bit more than I would like
22	to see at the sites, but what it has resulted in is
23	a very good understanding of the nature of the
24	groundwater beneath the site and its water quality.
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

We have been monitoring this groundwater

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1	site for over ten years now and have not found
2	any indications that the site is releasing any
3	contaminants to the groundwater. There is quarterly monitoring that goes on
4	There is quarterly monitoring that goes on
5 .	out there. The EPA has done monitoring, as well as
6	overseeing the WDIG and PRP group that is conducting
7	the monitoring on a quarterly basis. So we have
8	detected some organic organic contaminants that
9	appear to be coming from off site to the west of the
.0	property, sort of coming up, grading_it from across
1	Santa Fe Springs Road. And we are keeping our eye
.2	on that, but there is a fairly well-known several
.3	well-known contaminant sources that are up gradient
.4	far to the west in Santa Fe Springs that are
.5	contributing to it. But we are keeping an eye on
6 ا	it.
.7	And as discussed in a feasibility study,
L 8	we had the PRPs develop a remedy alternative to put
19	in the feasibility study for groundwater and,
20	technically, we had to do that because the history
21	of those contaminants on site, whether or not it was
22	coming, the WDIG site, we had to address a remedy so
23	we had them cost out a groundwater remedy. So if we
	2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1

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do find in the future that any contaminants from the

site are contributing to the groundwater, we can

20:31:09 1	implement a remedy. But currently we don't see any.
2	MS. SANFORD: Just one more.
3	MR. FILIPPINI: Sure.
4	MS. SANFORD: Would you talk about
20:31:28 5	long-term monitoring, how long would the EPA be
6	involved? When you finally leave this project.
. 7	would others be monitoring?
. 8	MR. FILIPPINI: Sure. Once the remedy is
9	constructed, under a joint EPA and State of
20:31:48' 10	California oversight, operation and maintenance
11	oversight of the site reverts to the State of
12	California. EPA sort of steps away and the State of
13	California, some of the best and the brightest in
14	the country come in and they oversee operations, the
20:32:07 15	maintenance of the cap as well as all the monitoring
16	involved of the soil gas and the groundwater
17	monitoring.
18	Groundwater monitoring has the to be a
19	component of the remedy for 30 years as long as the
20:32:25 20	site exists, and waste around the site, groundwater
21	monitoring has to continue and the State of
22	California will oversee that and they will develop
. 23	monitoring plans. As the design goes forward, we
24	will talk about, basically, it will likely be a
20:32:43 25	ratchet down version of what they have now because

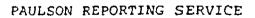
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20:32:47	1	it's a fairly aggressive program of what is going on
	2	now.
	3	Also, statutorily, the EPA is required 🀇
	4	to every five years, go back and look at the
20:32:59	5	remedy, review what the state has done, how the site
	6	is doing, how the remedy is holding up, are all of
	: ÷ 7	our concerns with respect to protectiveness still
•	. 8	holding up? Is the remedy doing what we thought it
	9	would be?
20:33:17	10	So every five years the EPA does take an
	11	active role and take a look at the books and make
	12	sure everything is going according to plan. And if
•	13	we do need to make changes to the remedy, we
	14	basically open up a public process and talk about
20:33:36	15	any major changes.
	16	MS. D. SMILEY: My name is Debra Smiley.
	17	I'm president of the Protect Our Neighborhood
	18	Committee. I reside on Coney Crest Road where I own
	19	two homes and also there is five homes on Martin
20:34:02	20	Road, property there plus with all the other
	21	residents within the neighborhood.
•	22	A question I have is, this is on the
	23	newsletter here where it says features, where it
	24	lists after the closure of the disposal facility in

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1950, development of small industrial structures

20:34:27	began along Santa Fe Springs. Then down in the history, it operated under permit from 1949 to '64,
;	history, it operated under permit from 1949 to '64,
	then it doesn't say anything about the illegal
•	dumping that was done after 1964 clear up to the
20:34:46 .	eighties.
,	So this wasn't mentioned in the
ا المعامل والمعامل والأراك في الو	informational part of this that I think you know is
. :	very important to be put in there.
:	MR. FILIPPINI: Okay.
20:34:58 1	MS. D. SMILEY: Another part here, as I
1	was reading through it, as I was reading on the
1	other side where it says cleanup activities, the
. 1	investigation further defined the limits and buried
1	waste. It says Figure 4 and I can't find Figure 4.
20:35:21 1	MR. FILIPPINI: That's a typo.
1	MS. D. SMILEY: I thought so. I just
. 1	wanted it clarified for the record.
1	MR. FILIPPINI: Right.
1	MS. D. SMILEY: Another question is the
20:35:31 2	gases are that are going to be monitored, where it
. 2	says soil gases with the areas of concern with the
2	lines in Figure 2, now, what type would be monitored
2	and for how long? What is the length of time-frame?
2	I mean, with all those that are marked with the
20:35:50 2	lines for the gas areas with the buried waste there,

we are talking about breaking up the driveways and the blacktop, what will be done with that? What precautions are taking with just digging up the blacktop around those buildings and the waste exposed?

MR. FILIPPINI: Do you want me to address

1.7 - those?

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MS. D. SMILEY: Yes.

MR. FILIPPINI: With respect to the soil gas, monitoring is an integral component of the remedy and it basically has to go in perpetuity as long as there is soil gases being generated under State of California guidelines, as long as waste exists there and the combined monitoring. And bio venting wells are designed to -- if gas conditions get to a point where we have to, in fact, put a vacuum on them to take the gases out or in some ways inject air in them to get the gases to degrade, so those will be done in perpetuity. There is an existing monitoring well network out there for groundwater and soil gas.

when we get to the construction of the cap, most of those will likely be destroyed. We will be without a picture for a period of time.

There will be phases as they go in construction,

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20:37:.26	1	they may not be able to save those wells and they
20.37.20		may not be in the best locations. So when we get to
	2	
	3	design, we need to move them to the appropriate
	4	locations. We will do that under the design phase.
20:37:40	5	Now, it's also important to note that the
	6	groundwater the soil gas monitoring and the bio
	T^{π}	venting wells will not necessarily be concentrated
•	8	on those soil gas hot spots because they can move
	9	around, but they will be looked at. The soil gas
20:38:03	10	monitoring and bio venting system has to encompass
	11	the entirety of the site and has to be in place for
	12	purposes of perpetude, say as the groundwater goes.
	13	MS. D. SMILEY: Would this be the
	14	Protect Our Neighborhood Committee would like to be
20:38:22	15	notified in writing as to what the results of the
	16	monitoring system, when it's done every time it's
	17	done, we would like to be notified what the results
	18	are, as well as the groundwater. We would like to
	19	stay up on this because it is a 30-year cap or cap
20:38:40	20	window that you are looking at.
	21	ME. FILIPPINI: Right.
	22	MF. L. SMILEY: I'm 50, so by that time
	23	2.13 per EC
	24	MF. FILIPPINI: All that information is in
20:38:49	25	the public record and will be available to you and

20:38:53	1	if we we can set up systems by where we can get
20:36.33	2	those down to the library.
		THE WITNESS: I know they will have it on
	3	
	4	the Internet, but we would like written notice that
20:39:07	5	it is being done and kept being monitored and what
	6.	the results are-for our committee alone. I mean,
	7	that's what I am asking, if it can be done, we would
	8	like it in the record as a decision that Gen
	9	Duncanson and myself, the committee, we want this
20:39:29	10	information at all times when the monitoring is
	11	done, you know, what the results are, whenever it's
	12	done, what scheduling.
	13	MR. FILIPPINI: Okay.
	14	MR. HODGE: We will note that.
20:39:42	15	MR. FILIPPINI: I don't know what I can
	16	commit to, but I will note it on the record.
	17	MS. D. SMILEY: Also, on the groundwater,
	18	because that is a concern to all of us as residents.
	19	Another thing here on the assessment of
20:39:57	20	future risk, when I was reading it, it says it
	21	certainly estimate the potential risk, the exposure
	22.	for potential future residential uses but not
	23	potential reuse. Those residential uses are not
	24	anticipated so at no time can it be used for
20:40:14	25	children or residents.

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20 - 40 : 16	1	Now you say that it can be used also for
	2	parking. What are the limitations on the parking?
	3	I mean, if they put in large industry buildings,
	4	will it handle a big rig?
20:40:32	5	MR. FILIPPINI: All that.
	6	MS. D. SMILEY: It will?
	7	MR_FILIPPINI+ Dy design it will only be
	8	allowed to be used for a level of design that is
	9	acceptable. We do understand that in redevelopment,
20:40:49	10	the occupants of those new buildings and warehouses
	11	will likely like to maintain it is anticipated
	12	that as part of the reviews and redevelopment that
	13	those occupants of the developments that would go in
	14	would likely use those for pretty heavy duty parking
20:41:21	15	uses.
	16	So the design of that cap would be
	17	commensurate with the anticipated load use, and
	18	there is also inspection elements on the operation.
	19	maintenance plan that calls for the State to come
20:41:34	20	out as well as the overseeing-responsibility of
	21	responsible party groups that will do the oversight
	22	and maintenance of the entire property.
	23	But they will come out and do inspections
	24	on a periodic basis to assure that the cap integrity

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is maintained.

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	- 1	ais.
20:41:56	1	Now, being that the final grade will be
	. 2	asphalt, there will be certain levels of service.
	3	It will reach a certain age at which it has reached
	4	its maximum usage under which the maintenance plan
20:42:13	5	upgrades of the recapping will have to go in place.
	6	MS. D. SMILEY: Now, where it says risks
	7	from the WDI potential identified. the potentials
	8	identified are exposure to_contaminated soil
	9	inhalation, inhalation of gases migrating to the
20:42:37	10	enclosed spaces.
	11	So now if you are going to be tearing up
	12	the blacktop in the area, that will be a pathway to
	13	exposure. When will it be done and when the school
	14	is not in session? I mean, during the summer months
20:42:54	15	when kids are not exposed, because they are there
	16	for a few hours during the day to help keep down the
	17	exposure at St. Paul and also to the residents in
• •	18	the area.
	19	. MR. FILIPPINI: It's my understanding that
20:43:17	20	the school is year-round so the ability to sort of
	21	accommodate a time period where students aren't in
•	22	the proximity is likely not possible.
	23	That said, that should not be a problem.
	24	Standard level of construction during these

construction operations will be to assure that the

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exposure is minimized and controlled and to a level
that is acceptable to the community, and the uses
around, so we are anticipating during the design
process health and safety programs go into place and
permission to control the programs and monitoring
the programs and emissions control systems are put
into place to make sure those things don't hurt. So
we feel as comfortable doing it during school hours
as any other time.
Don has asked if I can talk generally what
dust control involves. There are several elements
the one there is a big monitoring component and

Don has asked if I can talk generally what dust control involves. There are several elements to it. One, there is a big monitoring component and we don't anticipate that by just sort of going into the first level of fill, because you have to remember under most, in fact, all of the waste that is out there now is under some thickness of what we call clean fill, it is not considered waste.

So we are working with that material.

Will not present an exposure problem with respect to hazardous contaminants, because it's not the waste material, and that's important for the community to recognize, even if you see dusts or people running around without protective gear. It's because they have deemed it appropriate because not every bit of dirt on that site is hazardous.

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20:45:40	1	So there are means under the L.A. County Air Districts, there are suppressants that can be
	2	Air Districts, there are suppressants that can be
	3	used. Water is a major element. There are
•	4	restrictions on wind speed, when the windreaches
20:45:55	5	certain velocity, construction sometimes has to be
	6	halted. There are certain phases during the
	7	construction, monitoring will be in place. Health
	8	and safety person will make sure it is properly
	9	monitored.
20:46:13	10	Phasing is also an element of that that
	11	you might have to expose somebody to waste, given
	12	the proximity to waste, some modest amount of
	13	exposure can be tolerated because of the distance
	14	associated with the receptors being students or
20:46:33	15	residents. So opening a relatively small area to
	16	these petroleum wastes will not create a large
	17	exposure problem.
	18	If we were to do that under a massive
	19	excavation, that would become a different story, so
20:46:53	20	there are things along that line to control it.
·	21	Mike, can you think of any other things?
	22	There are a whole host of technologies used in dust
	23	control.
	24	MS. D. SMILEY: The reason I'm asking on
20:47:09	25	that is similar residents noticed the last time it

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1	was mowed, in their windows sills there was dust but
2	it was a sticky residue that stuck to the windows
3	when they were cleaning it off and they have noticed
4	that every time the property has been mowed so
5	that's why the question on that.
6	Another question I had from this is
7	under the remedial action it says protect action
8	objectives on Page 5. EPA's objectives-for actions
9	considered in this proposed plan are protecting the
10	health and environment, protect from contaminated
11	soils, protect current and off site receptors from
12	exposure to gases and prevent human exposure to site
13	through state, federal standards and other uses, and
14	it goes on.
15	What institutional control will be used to
16	prevent this from happening? I think you have
17	answered possibly part or it.
18	MR. FILIPPINI: Specifically, you are
19	referring to the liquids exposure?
20	MS D. SMILEY: Right.
21	MF. FILIPPINI: Well, not all liquids at
22	the site are hazardous. That's sort of why the
23	wording on that because rain does fall on the
24	site and does go through some of the soils and it
25	does drain in different directions. And we have got
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23



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	ł	.4.
20:48:51	1	a drainage system in place now and it is monitored
	2	to assure that wastes don't go off of the site. The
	3	wording on that is to assure that the design of the
-	4	landfill, meaning our objectives on design, the
20:49:10.	5	landfill cap, the RCRA cap and the clay monofil cap,
	- 6	are such that we minimize the contact of water with
	~ 7 -	the hazardous waste constituents so that they don't
-	8	get into the water and can either migrate down to
	9	groundwater or seep off the site through other
20:49:36	10	mechanisms and out to the gutter and through other
	11	exposure ways.
	12	So the cap, in and of itself, is
	13	designed that's one of the primary purposes of
	14	the cap, other than direct exposure. And also gas
20:49:51	15	control, control mechanism and its drainage
	16	components are put on that cap and the monofil cap
•	17	to make sure that liquids are taken off of the site
	18	and not allowed to contact the contaminants.
	19	And the reason it is worded that way, like
20:50:10	20	I said, not all liquids that are on the site there
20:30:10		are hazardous, but if they do come in to make sure
	21	
	22	they don't come in contact with the soil, that they
	23	can become a problem.
	24	MS. D. SMILEY: Under the institutions

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controls for revisions site use and access, with the

		part family
20:50:32	1	deed restrictions, let's see, will any who is going to be monitoring all of this? It goes back to
	2	going to be monitoring all of this? It goes back to
	3	the state, I think you said?
	4	MR. FILIPPINI: Correct.
20:50:49	5	MS. D. SMILEY: The State will be
·	6	monitoring, and for how long?
	7	MR. FILIPPINI: Same length of time.
	8	MS. D. SMILEY: Same length of time, the
	9	30 years for the cap or longer?
20:51:02	10	MR. FILIPPINI: 30 years minimum.
	11	MS. D. SMILEY: Minimal of 30 years.
	12	Okay.
	13	MR. FILIPPINI: We were a little slow on
	14	that one.
20:51:06	15	MR. FINCH: This is Michael Finch with the
	16	Department of Toxic Substances Control. Minimum of
	17	30 years or when there is no longer a threat to
	18	water quality, so it has to be at least 30 years but
	19	even after 30 years, you would have to demonstrate
20:51:28	20	that there is no threat to water quality. So in
	21	reality it's forever.
	22	MS. D. SMILEY: Now, on your other costs
	23	for the 30 year, it also includes the cost of
	24	operation and maintenance for the length of it.
20:51:51	25	MR. FILIPPINI: Correct.

20:51:51	1	MS. D. SMILEY: So the costs will
	2	MS. D. SMILEY: So the costs will continually go up after the 30-year window?
	3	MR. FILIPPINI: Yes. There will be
	4	additional costs after 30 years, but agreements with
20:52:07	5	parties who are charged with maintaining it, that
	6	agreement does not expire after 30 years.
	7	
	8	MR. FILIPPINI: That's cost. Cost is just
	9	for estimating purposes, for comparison.
20:52:22 1	10	MS. D. SMILEY: I think that's all the
. 1	11	questions I have for right now.
1	12	MS. MAPLE: Pam Maple again. This is
1	13	purely personal and I don't know if it has any
1	14	relevance at all, but does the EPA or State is
20:52:57	15	there anything retroactive? I was playing there in
1	16	the fifties and sixties. When am I going to die?
]	17	Do you guys have any clue?
	18	MR. FILIPPINI: I don't believe there has
;	19	been any studies.
20:53:18	20	MS. MAPLE: So there is no statistics?
	21	MR. FILIPPINI: The State of California,
:	22	Department of Health Services did a toxic study for
:	23	the residents and that is
:	24	MS. MAPLE: We live in a high cell cancer
20:53:34	25	group, high rate of cancer within our neighborhood.

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20:53:38	1	MR. FILIPPINI: But that report is still on its way. MS. MAPLE: Still working on it.
	2	on its way.
	3	
	4	MR. FILIPPINI: So the short answer to
20:53:48	5	your question is we have not gotten anything yet.
	6	There is some health studies that have been done for
	7	around the neighborhood that might address.
•	8	MS. MAPLE. I was on top of that where the
	9	caps were.
20:54:06	10	MR. FILIPPINI: A lot of stories.
	11	MS. ENGSTROM: My name is Sharon Engstrom,
	12	originally Crest, Debbie's sister. I always want
	13	the best of the best. I have said that how many
	14	times? We have gone through four years and I heard
20:54:26	15	the statement that the cap we are going to get is
	16	still relatively the same one we were going to get
,	17	four years ago.
	18	So four years down the lane, we are still
	19	getting all we have to live with that because
20:54:40	20	that's bureaucracy and I know within after you
	21	release the property and you are out of it, the
	22	City, the way they work with redevelopment, they
•	23	will have a flat, *because it's not effective to go
	24	on five years. so the owners of the property have a
20:54:59	25	two year window to know who is going to be leveled

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20.55:03	1	and who is not. That's a personal opinion.
ı	2	and who is not. That's a personal opinion. The other thing is when I look at this alternative two and then five, there is a big
	3	alternative two and then five, there is a big
	4	difference. And I.don't care about the cost and
20:55:17	5	these other sites, they may not care so much. You
	6	may save millions on that. Well, use your millions
	7	on me, on my mother's property, on the land around
	8	and protect our children, protect our schools and
	9	protect this neighborhood because we care.
20:55:37	1.0	And there are a lot of people who aren't
	11	and it's going to take several years of the people
	12	who own the buildings and who work here and been
	13	here. Their lives are on hold right now because we
	14	want the best. We want the cap to be effective.
20:55:55	15	Your big rigs, whatever compression factor, and I
	16	know how often they redo the blacktop and you are
	17	still putting tons on top of that site, which I
	18	can't care what anybody tells me, you put a big
	19	thing on top of a pancake, you are going to flatten
20:56:17	20	it eventually. 30 years down the road it won't be
•	21	15 feet, it will be less. It means you are
	22	spreading that contaminated toxic waste out or down.
	23	It's still an open cancer in the earth.
	24	It's called accountability and all of my
20:56:40	25	nieces and nephews, we are going to live here and we

20:56:43	1	are all going to be here. You promised me that you
	2	were a man that will give the best of the best. Im
	3	holding you to it.
	4	The short term, I would rather a short
20:56:56	5	term danger than give me a long-term uncertainty.
	6	If you could give me long-term and with the risk of
	7	short term, try to keep that to go that way because
	8	it's important.
	9	The other thing is when we do the
20:57:15	10	businesses and that I hope the City will take into
	11	effect and into account of how they have to deal
	12	with these people, give the highest price for the
	13	land because I worked with redevelopment in Seal
	14	Beach. Once they are there, they take control.
20:57:33	15	They will give you a gold wrapped Hershey's kiss,
	16	but they will eat three quarters of your Hershey's
	17	candy bar while they are doing it. So let's keep it
	18	up and honest while you are doing it, and I like all
	19	of you guys.
20:57:54	20	MF HODGE: Thanks.
	21	MF. FILIPPINI: Thanks.
•	22	In follow up to that, Ed, being that this
	23	is a tederal Superfund site, any actions that are
	24	done on this property with respect to relocation
20:58:11	25	have to meet Federal Relocation Uniform Act

		, pun,
20:58:17	1	requirements. And our attorneys have done an evaluation of the State of California's relocation
	2	evaluation of the State of California's relocation
	3	act and the federal relocation act and found them
	4	comparable. And the basic component of the remedy
20:58:28	5	is that we have specified discussing the feasibility
•	6	study, that is, those have to be complied with as
	7	redevelopment goes forward on this site.
'	8	AUDIENCE MEMBER (UNIDENTIFIED): Have this
	9	put all in words, five years from now someone is
20:58:43	10	going to come along and say you didn't write that
	11	down. It doesn't count. Everything has to be
	12	written in record.
	13	MR. FILIPPINI: We are coming up on nine
	14	o'clock.
20:59:01	15	Did anybody else have burning issues?
	16	Andy?
	17	MR. LAZZARETTO: My name is Andy
	18	Lazzaretto. I'm with the City of Santa Fe Springs.
	19	I didn't want to take up any more of your time, but
20:59:15	20	I just want to bring up some of the points that were
	21	discussed.
	22	I wish we could tell you a little bit
	23	more. I know you have a I'm frustrated because I
	24	can't give you definitive answers, but I can tell
20:59:29	25	you what we have been doing. We have been working

20:59:33	1	with a lot of the people in this community.
	2	We did get the grant for \$100,000. We
	3	with a lot of the people in this community. We did get the grant for \$100,000. We hired an architect, that architect for a landscape
	4	architect on his team and also a civil engineer so
20:59:49	5	with that group of experts, if you will, we have
been working with them to try to figure ou		been working with them to try to figure out the
	7	feasibility of this site. We have determined that
	8	the site is developable, if I could use that word.
	9	One of the first elements was to find out
21:00:06	10	if the site can be developed and we have pretty much
	11	convinced ourselves that that is possible. That we
	12	are not dealing with something that is not feasible
•	13	from a physical standpoint, and one of the reasons
	14	that we like the alternative that is being
21:00:25	15	discussed, it actually lowers the profile of the
	16	site somewhat and what we have been discussing with
	17	a group of citizens that many of them are here
	18	tonight, that we have been talking about possible
	19	design alternatives for the site and we have come up
21:00:44	20	with, I think, really good examples of what could
	21	happen out there.
	22	Now, what prevents us from giving you
	23	part of the economic feasibility is what we have
	24	to accomplish with our money, but part of our

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responsibility is to try to determine if it's



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21:01:04	1	economically feasible to develop that site. One of
	2	the unknowns, Buffalo, the owner of that property,
	3	relocate Buffalo Bullet or the other businesses that
	4	are out there? We have an unknown because we don't
21:01:26	5	know how much it's going to cost. We have been
	6	working with the Relocation, Inc. Group and I've
	7	been told a number of times verbally that the group
/	8	is willing to finance the studies that will enable
	9	us to make some more decisions.
21:01:43	10	We are going to be hiring an appraiser for
	11	the properties and we are going to be hiring a
	12	relocation specialist to go out and visit each one
	13	of the sites and give us a good, working estimate of
	14	what it would cost to acquire and relocate all the
21:02:00	15	property owners excuse me, acquire the property
	16	and relocate the tenants.
	17	Once we have that information, we will be
	18	able to we still don't know at that point whether
	19	we can make it happen, but it gets us closer. It's
21:02:19	20	a very complex issue. It boils down to how much
•	21	money is involved and whether or not we can actually
	22	make it happen.
	23	We are going to be going to the City
	24	Council of Santa Fe Springs towards the end of July
21:02:35	25	and we are going to be discussing many of the things

21:02:38	1	that we went over this evening. We are also going
	2	to be giving an update of what the citizens
	3	committee has been discussing and ask the City
	4	Council's direction. We hope they will give us the
21:02:52	5	direction to go ahead and do the additional studies.
	6	If they didn't wish us to proceed, we will
	7	just drop it. But we are trying to get to the
	8	alternative. This property is going to be there for
	9	30 years. Most of those buildings that are out
21:03:12	10	there have probably reached their life span in terms
	11	of how long those buildings are ever going to remain
	12	in place. If there wasn't redevelopment, they have
	13	kind of reached the point where they kind of need to
	14	be replaced for a lot of reasons. I know many
21:03:33	15	people get attached to their property. So if we do
	16	something to that site to make it safe, as EPA is
	17	going to do, then we are also looking at making the
	18	site usable for the next 30 years in the most
	19	optimistic way.
21:03:54	20	So I just want to point that out. We are
	21	always happy to answer any questions the property
	22	owners or tenants have. I'm in city hall quite
	23	regularly. If you need my card, I have a number of
	24	them tonight. I'm happy to meet with you one-on-one
21.04:12	25	and answer any questions you have.

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21:04:19	1	MR. HODGE: Anyone else who would like ton
	2	come up and ask a question or make a comment?
	3	AUDIENCE MEMBER (UNIDENTIFIED): I'm als
	4	a member of the Protect Our Neighborhood. I wonder
21:04:48	5	if you are going to get a Web site up so we can
	6	access what's going on on a periodic basis?
	7	MR. HODGE: I'm hesitating because I am
	8	trying to remember the Web address. It's part of
	9	the Region 9 Superfund Site and probably the best
21:05:16	10	way to do is just write down the address for those
	11	of you who want it, but I can try to recite it.
	12	It's www.epa.gov/region09/waste.
	13	AUDIENCE MEMBER (UNIDENTIFIED): Repeat
	14	that, please.
21:05:45	15	MR. HODGE: Sure.
	16	It's www.epa.gov/region09/waste. That
	17	will get you close to get you to the WDI site, it.
	18	would.
	19	ME. FILIPPINI: It's pretty obvious. Go
21:06:12	20	through Superfund sites. It's way down at the
•	21	bottom.
-	22	MR HODGE: If you have trouble finding it
	23	from there, please give me a call and I will step
	24	you through the site or I will e-mail you the exact.
21:06:26	25	address, because I don't have it on the top of my

		`يامتر *
21:06:29	1	head right now. I should have put that on a slide.
	2	Other questions? I know it's a little
	3	after the time we said we were going to close the
	4	meeting but I don't want to preclude anyone.
21:06:54	5	If not, I think you should give yourselves
	6	a round of applause. I want to express my
	7	appreciation to the project navigator for putting
	8	together the presentation and managing all the
	9	equipment here. I appreciate that.
21:07:23	10	And to Lor Rae Nelson, who will produce
	11	the transcript.
	12	And to all of you for coming out. Thank
	13	you very much for your for reading the proposed
	14	plan, for catching my mistakes and I hope to see you
21:07:39	15	at the many future meetings.
	16	Thanks again.
	17	(The Hearing was concluded at 9:07 p.m.)
	18	
	19	
	20	
	21	
	22	
	23	<i>,</i>
	24	
	25	

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1	REPORTER'S CERTIFICATION 場
2	
3	I, LorRae D. Nelson, a Certified Shorthand
4	Reporter in the State of California, do hereby
5	certify:
6	
7	That the foregoing proceedings were taken
8	before me at the time and place herein set forth;
9	that the proceedings were reported stenographically
10	by me and later transcribed into typewriting under
11	my direction; that the foregoing is a true record of
12	the proceedings taken at the time.
13	
14	IN WITNESS WHEREOF, I have subscribed my
15	name this 15th day of August, 2001.
16	
17	
18	Januar Mill
19	LorRae D/ Nelson, CSR No. 7384
20	
21	
22	



Filed 09/13/2006

WASTE DISPOSAL, INC.

AMENDED RECORD OF DECISION

Appendix 2

Waste Disposal, Inc. Superfund Site Santa Fe Springs, California 90670

United States Environmental Protection Agency Region 9 - San Francisco, California





ST. PAUL HIGH SCHOOL

9635 Greenleaf Avenue • Santa Fe Springs • California 90670 (562) 698-6246 • Fax (562) 696-8396

June 22, 2001

United States Environmental Protection Agency Region IX Superfund - Waste Disposal, Inc. Site 75 Hawthome Street San Francisco, CA 94105-3901

Attention: Don Hodge and Mark Filippini

Dear Sirs:

St. Paul High School is located directly north and adjacent to the Waste Disposal, Inc. (WDI) Superfund Site, close to the main disposal reservoir area. We are requesting inclusion in the Record of Decision of two items. The first is remuneration based on both St. Paul High School's loss of revenue and the additional costs of operation incurred beginning in July, 1987, when the site was placed on the EPA's Superfund National Priorities List.

St. Paul requests that the Record of Decision include a statement assuring the school that there will be a barrier which eliminates the possibility of a 'direct line of sight' over the school, fields, and parking lot. This request has to do with our serious commitment to and genuine concern for the safety of our St. Paul High School students. The need to protect the entire student body from outsiders is unfortunately a reality in today's society. Even if the present clean soil covering the main disposal reservoir is lowered five to ten feet before a new protective cover is added, the WDI site is considerably higher than our school site. At present, there is no regular use of any part of the Superfund Site adjacent to St. Paul by the public. However, once the cleanup and new cap are complete, there will be public use of the site.

The request for remuneration is based on loss of revenue caused by a decline in student enrollment and negative publicity. This has been due to the strong parental concern with the site's perceived toxicity and the imminent danger it may pose for students. Many students and coaches using our sports practice fields have seen protective covered, suited individuals working on the superfund site. At the same time, they are wearing shorts, t-shirts and tennis shoes and wondering if they should also be protected.

The school has also experienced a variety of operational expenses which are directly related to the WDIG superfund site. All water used on campus must be of drinking quality. We have been unable to even consider using reclaimed water, even for field maintenance because of polluted water concerns. For many years, we called upon and paid for services from the California Department of Agriculture, who assisted with the extermination of gophers and other vermin. We have experienced damage to our practice fields and baseball diamond/field. There has been a continuing battle against the plant and weed spore/seeds that were either airborne or spread through WDI rain water runoff and all of our fields have been infected. For several years, we have aggressively fought against the spread of an ornamental clump grass. Last year alone, we show a significant increase in ankle, knee, and leg injuries which we feel is a direct result of this weed's spread

St. Paul High School continues to actively participate in the EPA's public process and has been in regular contact with the EPA's Remedial Project Managers and the Community Involvement Coordinators, as well as otherpublic agencies. The school has always endeavored to be a good neighbor. For 14 years, the WDIG site has been on the EPA's Superfund Site National Priorities List and St. Paul High School, under the direction of three principals, has continued to focus on challenging our students to strive for academic, artistic and athletic excellence and worked

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toward building a more just society. However, our efforts are not without cost. The loss of revenue and the additional operational costs have negatively impacted our school in the areas of long-term plant maintenance, upgrading of facilities, and providing the needed tuition assistance to families with financial need. Reasonable remuneration will benefit these areas immediately.

We ask that both remuneration to St. Paul High School and a statement eliminating any "direct line of sight' over the school, fields, and parking lot become part of the Environmental Protection Agency's "Record of Decision." The school and the Department of Catholic Schools, Archdiocese of Los Angeles will be active in all phases of the public process and we look to the future when the WDI site is able to be put back into public use. If there are any questions or a need for additional information, please contact me or Lois McMillan Maldonado at (562) 698-6246.

Sincerely.

Frank A. Laurenzello

Principal

cc: Mrs. Nancy Coonis

Superintendent. Department of Catholic Schools - Archdiocese of Los Angeles

Ms. Dorothy Pittelkau

San Pedro Regional Supervisor, Department of Catholic Schools - Archdiocese of Los Angeles

Mr. Roberto Pugo

Waste Disposal Inc. Group Coordinator, Project Navigator

Mr. Michael Skinner

Waste Disposal Inc. Group Chair

JOHNSON & TEKOSKY LLP

TELEPHONE (213) 229-4500 FACSIMILE (213) 229-2770 THIRTY-FIRSTIFLOOR
LOS ANGELES CALIFORNIA 0071

July 2, 2001

United States Environmental Protection
Agency - Region 9 - Superfund Division
Mr. Mark Filippini
Remedial Project Manager
75 Hawthorne Street (SFD-7-1)
San Francisco, CA 94105-3901

Re: Comments re Waste Disposal, Inc. Superfund Site

Dear Mark:

I am writing to provide comments on the proposed remedy on behalf of the owners of the properties identified as parcels 3 and 24, respectively.

First, the EPA's favored alternative, alternative number two, provides for a monofill cap to cover "areas underlain by waste materials in Areas 1, 2, 4, 5, 6, 7 and 8." This decision appears to be premised solely on whether "waste materials" are detected underneath a parcel rather than the nature and degree of constituents of concern under a given parcel. As for parcel 3, the site investigations performed to date indicate that "[b]ased on the results from soil borings drilled on this parcel and adjacent parcels, it appears that the buried waste that underlies much of the central portion of the WDI site does not extend beneath Parcel 003." Accordingly, we conclude that no cap of any kind whatsoever is contemplated for Parcel 3. With respect to parcel 24, the property owners submit that environmental testing conducted to date suggests that constituents of concern have not been detected conclusively in amounts significant enough to determine that waste materials underlie the parcel. Let alone to warrant capping -- or to undertake any other remedial measures.

Status of Environmental Investigations 1985, 1999 for Parcel APN 8167-002-003 (U.S. EPA December 2000) at

For example, in the Status of Environmental Investigations 1988-1999 for Parcel APN 8167-002-024, soil borings TS-108, TS-109, TS-110, TS-111, TS-122 and SB-65 were used to estimate the approximate extent of the buried wastes. Id at 11. Yet, borings TS-108 through TS-111 were clean. Id at Attachment 2. In TS-122, drilling mud is

Case 2:05-cv-06723-SVW_NBK

Document 49

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Page 232 of 260

ohnson & Tekosky LLP

ATTORNEYS AT LAW

Mr. Mark Filippini July 2, 2001

Page 2

With respect to any decisions to require engineering controls or to remove any buildings, the feasibility study indicates that such decisions will be made during the design phase. Accordingly, we reserve the right to comment on the need for, or the extent of, such controls at such time or times as those decisions are made.

Please direct questions or comments on this submittal to the undersigned.

Steven R. Tekosky

Very truly yours

not identified. Instead greenish clay with no staining or odor was observed as "possibly drilling mud". Id. at anachmeni 2. As for SB-65, there is continuous sampling every five feet to a depth of 45 feet. At a depth of 15 and 35 feet, respectively, the observer noted "slight contamination visible." Id at Attachment 2. At all other depths it was reported that no continuous visible. It at Affachment 2. If anything, these observations seem to be at odds with the weight of the soil borings for the parcel

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SpiderMBA@pacbell.net on 06/16/2001 07:03:07 AM

To. Don Hodge/R9/USEPA/US GEPA, Mark Filippini/R9/USEPA/US GEPA

WDN <letters wdn@sqvn.com> CC

Subject. WDi Sne

Dear EPA and NIMBYs of Santa Fe Springs/Whittier:

The 43 acre Superfund Site bounded by Santa Fe Springs Road. Greenleaf Avenue, and Los Nietos Road, should be put to productive use after the remediation of all contamination is completed. Land is just too valuable to waste.

Since the organic wastes will be capped and will present no further danger to anybody, this land should be completely developed. It should be sold by its rightful owner to a developer for either a distribution center, consisting of warehouses, a small building business park, or a low income apartment community. Since cities allow NIMBYs (Not In My Back Yard) to make the decisions in most communities, let them choose from among these options.

Allowino 43 acres of developable land to lie fallow is the height of folly.

I would gladly work or live there, knowing the risks involved, for I have a degree in chemistry. There are no toxic compounds, only toxic levels. Let's be prudent, not heurotic. Every time you get into your car, you are sitting atop a gas tank and an engine full of "toxic compounds' - volatile and flammable gasoline and dirty engine oil. It hasn't hurt you yet.

John Jaeger 9500 Norwall Boulevard Santa Fe Springs, CA



ST. PAUL HIGH SCHOOL

9635 Greenleaf Avenue • Santa Fe Springs • California 90670 (562) 698-6246 • Fax (562) 696-8396

December 20, 2001

Mr. Russell Meechem
Project Director
United States Environmental Protection Agency
Region IX Superfund - Waste Disposal, Inc. Site
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Meechem:

We were pleased to meet you last week. December 13, 2001 at St. Paul High School. As you are aware, our school is located directly north and adjacent to the Waste Disposal, Inc. Group (WDIG) Superfund Site, close to the main disposal reservoir area (dial). St. Paul High School formally requests inclusion in the Record of Decision construction of a barrier which eliminates the possibility of a 'direct line of sight' over the school, fields, and parking lot.

This request has to do with our serious commitment to and genuine concern for the safety of our St. Paul High School students. The need to protect the entire student body from outsiders is unfortunately a reality in today's society. Even if the present clean soil covering the main disposal reservoir is lowered five to ten feet before a new protective cover is added, the WDIG site is considerably higher than our school site. At present, there is no regular use of any part of the Superfund Site adjacent to St. Paul by the public. However, once the cleanup and new cap are complete, there will be continuous use of the site during clean-up and redevelopment.

St. Paul High School continues to actively participate in the EPA's public process and has been in regular contact with each of the EPA's Remedia! Project Managers and the Community Involvement Coordinators, as well as other public agencies. The school has always endeavored to be a good neighbor. For 15 years, the WDIG site has been on the EPA's Superfund Site National Priorities List and St. Paul High School, under the direction of three principals, has continued to focus on our mission statement of challenging our students to strive for academic, artistic and athletic excellence and worked toward building a more just society.

The school and the Department of Catholic Schools. Archdiocese of Los Angeles will be active in all phases of the public process and we look to the future when the WDIG site is able to be put back into full public use. If there are any questions or a need for additional information, please contact me or Lois McMillan Maldonado at (562) 698-6246.

Sincerely.

Frank A Laurenzello

Principal

SCANNED

APPENDIX B

WASTE DISPOSAL, INC.

regens SITE ARK A BOUNDARY EXISTING BUILDINGSTRUCTURE SHE BOUNDARY PHOPERTY BOLINDARY INDEPENDENTE IN MINE ENGINEETBAKE BURVEY DITAWING HE 97 BF, CICE 31 1997 Site Location Map with Site Areas AREA 3 AREA.5. AREA 4 AREA 7 AREA 6 SITE FEATURES AGO FEFT

APPENDIX C

RECORDING REQUESTED BY: Dan Holbrook 13900 Virginia Foothills Dr. Reno, NV 89511

WHEN RECORDED, MAIL TO:

Michael J. Skinner Trustee of the WDIG Site Trust Michael J. Skinner Consulting, LLC 230 Kings Highway East, #300 Haddonfield, NJ 08033 S. Asserta

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

COVENANT TO RESTRICT USE OF PROPERTY

ENVIRONMENTAL RESTRICTION

(Re: Assessor's Parcel Nos. 8167-002-003 and 8167-002-024; 12637 and 12635 Los Nietos Road, Santa Fe Springs, CA)

This Covenant and Agreement ("Covenant") is made by and between the Raymond and Donnis Holbrook Trust (the "Covenantor"), the current owner of property situated in Santa Fe Springs, County of Los Angeles, State of California, described in Exhibit A, attached hereto and incorporated herein by this reference (the "Property"), and the WDIG Site Trust ("WDIG Site Trust" or "Trust"). Pursuant to Civil Code section 1471(c), this Covenant is reasonably necessary to protect present or future human health or safety or the environment as a result of the presence on the land of hazardous substances as defined in 42 U.S.C. § 9601(14), pollutants or contaminants under 42 U.S.C. § 9601(33), and in California Health and Safety Code ("H&SC") Section 25260. The Covenantor and the Trust, collectively referred to as the "Parties," hereby agree pursuant to Civil Code section 1471(c) and H&SC section 25355.5 that the use of the Property be restricted as set forth in this Covenant. The Parties further intend that the provisions of this Covenant also be for the benefit of the U.S. Environmental Protection Agency ("EPA") and the California Department of Toxic Substances Control ("DTSC") as third party beneficiaries.

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<u>ARTICLE I</u>

STATEMENT OF FACTS

- 1.01. The Property is more particularly described and depicted in Exhibit A, attached hereto and incorporated herein by this reference. The Property is located in the area now generally bounded by Los Nietos Road, Greenleaf Avenue, and Santa Fe Springs Road, in the County of Los Angeles, State of California. This property is more specifically described as Los Angeles County Assessor's Parcel Nos.: 8167-002-003 and 8167-002-024.
- 1.02. The Property is a portion of the Waste Disposal, Inc. Superfund Site and was listed on the National Priority List on July 22, 1987 by EPA. A map of the Site is attached as Exhibit B. Remediation of the Site is being conducted pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, 42. U.S.C. §§ 9601 et seq ("CERCLA"). EPA has selected a remedy for the Site, which is documented in the Amended Record of Decision ("Amended ROD") signed by EPA on June 21, 2002. The remedy includes construction of a RCRA-equivalent cap over the reservoir area in Area 2, use of engineered caps in portions of Areas 1, 2, 4, 5, 6, 7, and 8, installation and use of an active soil vapor extraction system and/or a soil gas monitoring system, use of a liquids collection system under the RCRA-equivalent cap, institutional controls, engineering controls in buildings overlying buried waste or soil gas noncompliance areas, use of in-business ambient air monitoring, long-term soil gas monitoring. Inneg-term groundwater monitoring, and long-term operations, maintenance and monitoring. The Administrative Record for the Site is available for review at the Santa Fe Springs Public Library located at 11700 Telegraph Road in Santa Fe Springs, and at EPA's Region IX Records Center, located at 95 Hawthorne St., San Francisco, CA 94104.
- 1.03 Because waste will remain in place at the Site, EPA selected institutional controls as part of the remedy selected in the Amended ROD. The institutional controls will be implemented in order to ensure the long-term integrity of the remedy and to prevent exposure to waste remaining at the site. The Amended ROD provides for restrictive environmental covenants to be recorded on the properties at the Site to fulfill the purposes of protecting the remedy and preventing certain activities on and uses of the properties.

ARTICLE II

DEFINITIONS

- DTSC. "DTSC" means the California Department of Toxic Substances Control 2.01. and includes its successor agencies, if any.
- 2.02. EPA. "EPA" means the United States Environmental Protection Agency and includes its successor agencies, if any.
- 2.03. Owner. "Owner" means the Covenantor, its successors in interest, and their successors in interest, including heirs and assigns, who at any time hold title to or an ownership interest in, all or any portion of the Property.
- 2.04. Occupant. "Occupant" means Owners and any person or entity entitled by ownership, leasehold, or other legal relationship to the right to occupy any portion of the Property, and their successors in interest.
- 2.05. CERCLA Lead Agency. "CERCLA Lead Agency" means the governmental entity having the designated lead responsibility to implement response action under the National Contingency Plan ("NCP"), 40 C.F.R. Part 300. EPA is the CERCLA Lead Agency at the time of the recording of this instrument.
- WDIG Site Trust. "WDIG Site Trust" means the grantee and Covenantee of this environmental restriction and its Trustee, and their successors in interest.
- 2.07 Waste Materials. "Waste Materials" means (1) any "hazardous substance" under Section 101(14) of CERCLA, 42 U.S.C. § 9601(14); (2) any pollutant or contaminant under Section 101(33), 42 U.S.C. § 9601(33); (3) any "solid waste" under Section 1004(27) of RCRA. 42 U.S.C. § 6903(27); (4) any "hazardous substance" under California Health and Safety Code §§ 25316 and 25317; and (5) all material identified as waste or sump material in site investigations conducted prior to the date this Covenant is recorded, irrespective of whether it is



classified as a hazardous substance, pollutant or contaminant, or solid waste under the above statutes.

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ARTICLE III

GENERAL PROVISIONS

- 3.01. Restrictions tó Run with the Land. This Covenant sets forth protective provisions, covenants, restrictions, and conditions (collectively referred to as "Restrictions"), subject to which the Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. Covenantor covenants that each and every Restriction: (a) runs with the land pursuant to H&SC section 25355.5(a)(1)(C) and Civil Code section 1471; (b) inures to the benefit of and passes with each and every portion of the Property, (c) is for the benefit of and enforceable by the WDIG Site Trust (d) is for the benefit of EPA and DTSC as third party beneficiaries, and (e) is imposed upon the entire Property unless expressly stated as applicable only to a specific portion thereof.
- 3.02. <u>Binding upon Owners/Occupants</u>. Pursuant to H&SC section 25355.5(a)(1)(C), this Covenant binds all Owners of the Property, their heirs, successors, and assignees, and the agents, employees, and lessees of the Owners, heirs, successors, and assignees. Pursuant to Civil Code section 1471(b), all successive Owners of the Property are expressly bound hereby for the benefit of the WDIG Site Trust, EPA, and DTSC.
- 3.03. Written Notice of the Presence of Hazardous Substances. Prior to the sale, lease, sublease, assignment or other transfer of the Property, or any portion thereof, the Owner or Occupant or any other, lessor, sublessor, assignor or other transferor shall give the buyer, lessee, sublessee, assignee or other transferee written notice that hazardous substances are located on or beneath the Property, and provide written notice thereof to the WDIG Site Trust, EPA and DTSC.
- 3.04. <u>Incorporation into Deeds and Leases</u>. The Restrictions set forth herein shall be incorporated by reference in each and all deeds, leases, assignments, or other transfers of all or any portion of the Property which are hereafter executed or renewed. Further, each Owner or

Occupant shall include in any instrument conveying any interest in all or any portion of the Property, including but not limited to deeds, leases, and mortgages, a notice which is in substantially the following form:

NOTICE: THE INTEREST CONVEYED HE	EREBY IS SUBJECT TO AN
ENVIRONMENTAL RESTRICTION AND O	COVENANT TO RESTRICT
USE OF PROPERTY, RECORDED IN THE	OFFICIAL RECORDS OF
LOS ANGELES COUNTY, CALIFORNIA, O	ON [DATE], AS
INSTRUMENT NO, IN FAV	OR OF AND ENFORCEABLE
BY THE WDIG SITE TRUST, AND FOR TH	HE BENEFIT OF THE U.S.
ENVIRONMENTAL PROTECTION AGEN	CY AND THE CALIFORNIA
DEPARTMENT OF TOXIC SUBSTANCES	CONTROL.

3.05. Conveyance of Property. The Owner shall provide notice to the WDIG Site Trust, and to EPA and DTSC not later than thirty (30) days after any conveyance of any ownership interest in the Property (excluding mortgages, liens, and other non-possessory encumbrances). The WDIG Site Trust, EPA, and DTSC shall not, by reason of this Covenant, have authority to approve, disapprove, or otherwise affect such proposed conveyance, except as otherwise provided by law, by administrative order, consent decree or by a specific provision of this Covenant.

ARTICLE IV RESTRICTIONS

4.01 New or Modified Buildings. The Covenantor covenants that if Owner or an Occupant constructs a new building or other permanent structure on the Property, or substantially modifies an existing building or other permanent structure on the Property, and such modification requires a City of Santa Fe Springs building or other land use permit, Owner or Occupant shall implement and maintain any necessary engineered capping system(s) and any necessary engineering control(s) related to the new or modified building or other permanent

Filed 09/13/26

structure, in conformance with the provisions of the Amended ROD and as specified by EPA. Such capping system and engineering controls shall be implemented only with the prior written approval of EPA.

- 4.02 Prohibited Uses. The Property shall not be used in any manner that would interfere with or adversely affect the implementation, integrity, or protectiveness of the remedial measures to be performed pursuant to the Amended ROD or any future response actions required by EPA. Owner and Occupants shall ensure compliance by all users of the Property with the following land/water use restrictions, except as otherwise authorized by EPA to implement the remedy selected in the Amended ROD or any future response action required by EPA.
 - Placement of warning signs or other posted information shall be allowed and, (a) once posted, no removal or interference with such signs or information shall be permitted.
 - (b) Placement of site access controls, such as gates or fencing, shall be allowed and shall not be damaged or circumvented.
 - The Property shall not be used in any manner that may interfere with or affect the (c) integrity of the remedial cap or other components of the remedy, as constructed pursuant to the Amended ROD.
 - Construction not approved by EPA that impacts any of the remedial capping or (d) other remedy components shall not occur.
 - (e) No interferences with or alterations to the grading, vegetation and surface water and drainage controls shall be made.
 - Portions of the Property underlain by Waste Materials and in soil gas (f) noncompliance areas shall not be regraded.
 - Areas of asphalt or concrete pavement shall not be removed or improved. (g)
 - No penetrations through or interferences (including, but not limited to, utility (h) trench excavations, excavations for fence posts, excavations for planting trees or large bushes, foundation excavations, and foundation piles) with the remedial cap or any other areas with remedial controls shall be made.
 - Deep-rooting plants (plants whose root systems will penetrate more than two feet (i) below ground surface) shall not be planted.
 - Obtain approval from EPA for settings of irrigation controls in areas underlain by (j)



Waste Materials. Such settings shall not be changed without the prior written approval of EPA in accordance with Section 5.01 unless such settings are approved by EPA as part of the remedy selected in the Amended ROD.

- (k) Drainage channels and pipes shall not be blocked, rerouted or otherwise interfered with.
- (l) No new openings shall be made in building floor slabs in buildings located over Waste Materials or over soil gas noncompliance areas.
- (m) Integrity of existing and future foundations shall be maintained in areas underlain by Waste Materials and in soil gas noncompliance areas. All cracks or damage in such foundations shall be reported to the WDIG Site Trust and EPA and the Covenantor covenants that such cracks or damage shall be repaired by the Owner or Occupant.
- (n) Indoor gas controls shall not be circumvented.
- (o) Indoor gas sensors or alarms shall not be turned off or interfered with.
- (p) Soil gas control systems shall not be turned off or interfered with.
- (q) Monitoring points, including but not limited to groundwater monitoring wells, soil gas probes, reservoir leachate collection wells, soil gas vents, and survey monuments, shall not be blocked or otherwise obstructed.
- (r) Monitoring wells shall not be opened; nothing shall be placed into the monitoring wells.
- (s) Liquids recovery systems, liquids treatment systems, and treated liquids storage facilities shall not be turned off or interfered with.
- (t) Groundwater supply or monitoring wells shall not be constructed.
- (u) Owners of the Property shall disclose all land/water use restrictions to all Occupants on the property.
- (v) Owners shall inform the WDIG Site Trust and EPA of the identities of all Occupants on the Property.
- (w) During construction, excavation, or grading of any type on the Property, Owner or Occupant shall take measures to ensure that there is no offsite migration of dust, odors or organic vapors. During such activities, Owner or Occupant shall take appropriate measures to protect the health and welfare of onsite personnel and workers and to prevent offsite impacts.
- (x) Owner or Occupant must obtain prior written approval for all building or site

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modifications on the Property from EPA in accordance with Section 4.01 and Section 5.01.

- (y) Owner or Occupant shall not excavate Waste Materials on the Site, except as authorized by EPA.
- (z) No new construction shall occur on the Property without the prior written approval of EPA in accordance with Section 5.01 and the following requirements:
- (i) New construction shall be supported by subsurface explorations and analytical laboratory data to characterize the construction area for the possible existence of Waste Materials.
- (ii) If Waste Materials are discovered in the construction area, they shall be remediated or buildings and structures must be appropriately designed to protect occupants.
- (iii) Appropriate worker and public health and safety precautions, including but not limited to dust control, safety plans, and other forms of worker protection, must be taken prior to approval of construction.
- (aa) Boreholes, foundation piles, or other subsurface penetrations into the reservoir or any other area of the site which could create conduits allowing Waste Materials to migrate to groundwater shall not be made.
- (bb) Construction workers shall be provided with appropriate personal protective equipment while they are working at the site.
- (cc) Pesticides or herbicides shall not be applied to the capped areas of the site or to areas surrounding monitoring points, except as approved by EPA for use in implementing the remedy selected in the Amended ROD.
- (dd) Use of any septic tanks on the property shall be discontinued and such tanks shall be decommissioned in accordance with local regulations.
- (ee) The Property shall not be used or redeveloped for residential use; use as a hospital, school for people aged 21 and under, or day care center; or other uses by sensitive receptors.
- 4.03. Access for the WDIG Site Trust. The WDIG Site Trust and EPA, and through them, their respective employees, agents, contractors, subcontractors, consultants, and other third parties authorized by the WDIG Trust and EPA shall have reasonable right of entry and access to the Property for implementing any response actions, inspection, monitoring, and other activities

consistent with the purposes of this Covenant as deemed necessary by EPA in order to protect the public health or safety, or the environment. Such activities shall include, but not be limited to:

- (a) Maintaining and monitoring the remedial action selected in the Amended ROD;
- (b) Verifying any data or information submitted to EPA;
- (c) Conducting investigations relating to Waste Materials at or near the Property;
- (d) Obtaining samples;
- (e) Assessing the need for, planning, or implementing additional response actions at or near the Property, if authorized by EPA;
- (f) Assessing implementation of quality assurance and quality control practices as defined in the Quality Assurance Project Plans approved by EPA for the remedial actions;
- (g) Implementing the remedy selected in the Amended ROD;
- (h) Assessing Owner's or Occupant's compliance with this Covenant; and
- (i) Determining whether the Property is being used in a manner that is prohibited or restricted, or that may need to be prohibited or restricted, in accordance with the Amended ROD.

Nothing in this instrument shall limit or otherwise affect EPA's right of entry and access, or EPA's authority to take response actions under CERCLA, the National Contingency Plan, 40 C.F.R. Part 300, and its successor provisions, or any federal law.

4.04. Enforcement. The WDIG Site Trust shall be entitled to enforce the terms of this instrument by resort to specific performance or legal process and injunctive relief. Failure of the Covenantor, Owner or Occupant to comply with any of the Restrictions specifically applicable to it shall be grounds for the WDIG Site Trust to require that the Covenantor, Owner, or Occupant modify or remove any improvements ("Improvements" herein shall mean all buildings, other structures, landscaping, roads, driveways, and paved parking areas) constructed or placed upon any portion of the Property in violation of the Restrictions. All remedies available hereunder shall be in addition to any and all other remedies at law or in equity, including CERCLA or state law, and violation of this Covenant shall be grounds for the WDIG Site Trust to file civil actions as provided by law or equity. The WDIG Site Trust for itself and on behalf of any person or entity responsible for any response action authorized or required by EPA (collectively "Responsible Parties") shall be entitled to recover damages for any violation of the terms of this Covenant, including but not limited to, the costs incurred by the WDIG Site Trust or by the

Responsible Parties to repair any damage to any remedial facilities or any other feature of any response action or to perform the maintenance of the Improvements, and any expenditures incurred by the Trust or such Responsible Parties to reimburse EPA for the agencies' oversight and enforcement costs related to this Covenant or violations thereof. Enforcement of the terms of this Covenant shall be at the discretion of the Covenantee and the third party beneficiaries and any forbearance, delay or omission to exercise their rights under this Covenant for breach hereof shall not be deemed a waiver by them of any such breach or subsequent breach of any term of this Covenant, or of any of their rights under this Covenant.

4.05 Attorneys' Fees. The WDIG Site Trust shall be entitled to recover its attorneys' fees and any costs from Owner and/or Occupant for any efforts, including but not limited to any legal actions, by the WDIG Site Trust to enforce the terms of this Covenant if the WDIG Site Trust prevails in such efforts or legal action.

ARTICLE V EXCEPTIONS, TERMINATION, AND TERM

- Exceptions to Land/Water Use Restrictions. If Owner or an Occupant seeks an exception to the land/water use restrictions in Section 4.01, Owner or Occupant shall obtain the prior written approval of EPA. Owner or Occupant shall submit a request in writing to EPA and to DTSC, with all necessary supporting documentation (such documentation may include appropriate design documents, work plans, and/or calculations). EPA shall respond to such request within a reasonable time, by: 1) providing written approval for the exception; 2) requesting further information in support of the request; 3) providing written approval of the exception with modification; or 4) denying the request. The decision of EPA shall be final and shall not be subject to judicial review. If requested by EPA, any approved exception shall be recorded in the Official Records of Los Angeles County in an Amended and restated Covenant by the person or entity granted the exception.
- 5.02 <u>Modification</u>. The land/water use restrictions of this Covenant may only be modified upon the written agreement of the Owner and the WDIG Site Trust, with the prior express written approval of EPA. Such modifications shall become effective when they are incorporated into this Covenant and such modified and restated Covenant is executed by Owner

and the WDIG Site Trust and recorded by the Owner.

- 5.03 <u>Termination</u>. Covenantor, or any other aggrieved person, may apply to the EPA for a termination of the Restrictions or other terms of this Covenant as they apply to all or any portion of the Property. The decision of EPA regarding any such request shall be final and not subject to judicial review.
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- 5.04 <u>Term.</u> Unless ended in accordance with the Termination paragraph above or by law, this Covenant shall continue in effect in perpetuity.
- 5.05 <u>Assignment.</u> The WDIG Site Trust, EPA and DTSC may freely assign their interests in this Covenant to any other parties without the approval of the Covenantor. The WDIG Site Trust shall obtain the written consent of EPA prior to any assignment of its interests under this Covenant.

ARTICLE VI MISCELLANEOUS

- 6.01. <u>No Dedication or Taking</u>. Nothing set forth in this Covenant shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Property, or any portion thereof to the general public or anyone else for any purpose whatsoever. Further, nothing set forth in this Covenant shall be construed to effect a taking under state or federal law.
- 6.02. Notices. Whenever any person gives or serves any Notice ("Notice" as used herein includes any demand or other communication with respect to this Covenant), each such Notice shall be in writing and shall be deemed effective: (1) when delivered, if personally delivered to the person being served or to an officer of a corporate party being served, or (2) three (3) business days after deposit in the mail, if mailed by United States mail, postage paid, certified, return receipt requested:

To Owner:

Case 2:05-cv-06723-SVW-

Donnis Holbrook, Trustee Raymond and Donnis Holbrook Trust c/o Dan Holbrook [address]

To WDIG Site Trust:

Michael J. Skinner Trustee of the WDIG Site Trust Michael J. Skinner Consulting, LLC 230 Kings Highway East, #300 Haddonfield, NJ 08033

To EPA:

Russell Mechem Remedial Project Manager U.S. Environmental Protection Agency, Region IX 75 Hawthorne St. San Francisco, CA 94105 Re: WDI Superfund Site

Sarah E. Mueller Assistant Regional Counsel U.S. Environmental Protection Agency, Region IX 75 Hawthorne St. San Francisco, CA 94105 Re: WDI Superfund Site

To DTSC:

Sara Amir Chief, Southern California Cleanup Operations Branch Department of Toxic Substances Control 1011 N. Grandview Ave. Glendale, CA 91201

Any party may change its address or the individual to whose attention a Notice is to be sent by giving written Notice in compliance with this paragraph.

6.03. Partial Invalidity. If any portion of the Restrictions or other terms set forth herein is determined by a court of competent jurisdiction to be invalid for any reason, the surviving portions of this Covenant, or the application of such portions to persons or circumstances other than those to which it is found to be invalid, shall remain in full force and effect as if such



portion found invalid had not been included herein.

- 6.04. <u>Liberal Construction</u>. Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed to effect the purpose of this instrument and the policy and purpose of CERCLA. If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision valid shall be favored over any interpretation that would render it invalid.
- 6.05. Third Party Beneficiary. EPA's and DTSC's rights as third party beneficiaries of this Covenant shall be construed pursuant to principles of contract law under the statutory and common law of the State of California.
 - 6.06. <u>Statutory References.</u> All statutory references include successor provisions.
- 6.07. <u>Waiver of Certain Defenses</u>. Covenantor hereby waives any defense of laches, estoppel or prescription.
- 6.08. Covenants. Covenantor hereby covenants to and with the Covenantee that the Covenantor is the owner in fee of the Property; that Covenantor has a good and lawful title and has the right and power to impose this Covenant on the Property; that the Property is free and clear of encumbrances as of the date hereof, except [List any agreed-to exceptions].

 Notwithstanding the foregoing, nothing herein shall prevent, preclude, limit or otherwise restrict the filing or recording against the Property of any liens (including but not limited to mortgages, deeds of trust and/or security agreements), encumbrances, covenants, conditions, restrictions, or other documents or instruments, provided that any such liens, encumbrances, covenants, conditions, restrictions, or other documents or instruments shall be subject and subordinate to this Covenant.
- 6.09. <u>Controlling Law</u>. Except as otherwise provided in Section 7.06, the interpretation and performance of this Covenant shall be governed by the laws of the United States or, if there are no applicable federal laws, by the law of the State of California.



- 6.10. <u>Joint Obligations</u>. If there are two or more parties identified as Covenantor in the Covenant, the obligations imposed by this Covenant upon them shall be joint and several.
- 6.11. <u>Captions</u>. The captions in this Covenant have been inserted solely for convenience of reference and are not a part of this Covenant and shall have no effect upon construction or interpretation.
- 6.12. <u>Counterparts</u>. The parties may execute this Covenant in two or more counterparts, which shall, in the aggregate, be signed by both parties; each counterpart shall be deemed an original instrument as against any party who has signed it. In the event of any disparity between the counterparts produced, the recorded counterpart shall be controlling.

IN WITNESS WHEREOF, the Parties execute this Covenant.

Covenantor:	Raymond and Donnis Holbrook Trust
Ву:	
Title:	
Date:	
WDIG Site T	rust:
By:	
Title:	
Date:	

Exhibit A

PARCEL NUMBER 8167-002-003

Legal Description:

Parcel 1:

Beginning at a point in the Southwesterly line of said Lot being the center line of Los Nietos Road 60 feet wide which point is 300 feet Southeasterly from the point of its intersection with the center line of Santa Fe Springs Whittier Road (40 feet wide) thence Northeasterly parallel with the Northwesterly line of said Lot 300 feet; thence Southeasterly parallel with the Southwesterly line of said Lot 125 feet; thence Southwesterly parallel with the Northwesterly line of said Lot 300 feet to a point in said Southwesterly line of said Lot; thence northwesterly along the Southwesterly line of said Lot 125 feet to the point of beginning.

Parcel 2:

Beginning at a point in the Southwesterly line of said Lot being the center line of Los Nietos Road 60 feet wide which point is 300 feet Southeasterly from the point of its intersection with the center line of Santa Fe Springs Whittier Road (40 feet wide) thence Northeasterly parallel with the Northwesterly line of said Lot 300 feet which is the true point of beginning; thence continuing in a Northeasterly direction a distance of 30 feet; thence Southeasterly parallel with the Southwesterly line of said Lot 125 feet; thence Southwesterly parallel with the Northwesterly line of said Lot 30 feet; thence Northwesterly parallel with the Southwesterly line of said lot 125 feet to the true point of beginning, the Southwesterly line of said parcel being the same as the Northeasterly line of a parcel of ground conveyed by Deed to Leslie H. Holbrook and Raymond R. Holbrook, recorded in Book 45819, Page 251, Official Records, county of Los Angeles, state of California.

Subject to all conditions, covenants, liens, restrictions, reservations, rights, rights of way and easements of record.

PARCEL NUMBER 8167-002-024

Legal Description:

Beginning at a point in the Southwesterly line of said Lot being the center line of Los Nietos Road (60 feet wide) which point is 300 feet Southeasterly from the point of intersection with the center line of Santa Fe Springs Whittier Road (40 feet wide), now known as Santa Fe Springs Road; thence North Easterly parallel with the Northwesterly line of said Lot, a distance of 330 feet to the most Northerly corner of the land described to Leslie M Holbrook, et al, by deed recorded on October 24, 1955 as Instrument No. 3705 in Book 49322, page 49 of Official Records of said county; and the true point of beginning for this description; thence continuing Northeasterly and parallel with said Northwesterly line of said Lot, a distance of 170 feet; thence Southeasterly parallel with said Southwesterly line of said Lot, a distance of 125 feet; thence Southwesterly parallel with said Northwesterly line of said Lot, a distance of 170 feet to the most Easterly corner of said land of Leslie M. Holbrook, et al; thence Northwesterly along the Northeasterly line of said land of Leslie M. Holbrook, et al, a distance of 125 feet to the true point of beginning.

Subject to all conditions, covenants, liens, restrictions, reservations, rights, rights of way and easements of record.

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APPENDIX D

Legal Description:

Assessor's Parcel Number 8167-002-003:

Parcel 1:

Beginning at a point in the Southwesterly line of said Lot being the center line of Los Nietos Road 60 feet wide which point is 300 feet Southeasterly from the point of its intersection with the center line of Santa Fe Springs Whittier Road (40 feet wide) thence Northeasterly parallel with the Northwesterly line of said Lot 300 feet; thence Southwesterly parallel with the Southwesterly line of said Lot 125 feet; thence Southwesterly parallel with the Northwesterly line of said Lot 300 feet to a point in said Southwesterly line of said Lot; thence northwesterly along the Southwesterly line of said Lot 125 feet to the point of beginning.

Parcel 2:

Beginning at a point in the Southwesterly line of said Lot being the center line of Los Nietos Road 60 feet wide which point is 300 feet Southeasterly from the point of its intersection with the center line of Santa Fe Springs Whittier Road (40 feet wide) thence Northeasterly parallel with the Northwesterly line of said Lot 300 feet which is the true point of beginning; thence continuing in a Northeasterly direction a distance of 30 feet; thence Southeasterly parallel with the Southwesterly line of said Lot 125 feet; thence Southwesterly parallel with the Northwesterly line of said Lot 30 feet; thence Northwesterly parallel with the Southwesterly line of said lot 125 feet to the true point of beginning, the Southwesterly line of said parcel being the same as the Northeasterly line of a parcel of ground conveyed by Deed to Leslie H. Holbrook and Raymond R. Holbrook, recorded in Book 45819, Page 251, Official Records, county of Los Angeles, state of California.

Subject to all conditions, covenants, liens, restrictions, reservations, rights, rights of way and easements of record.

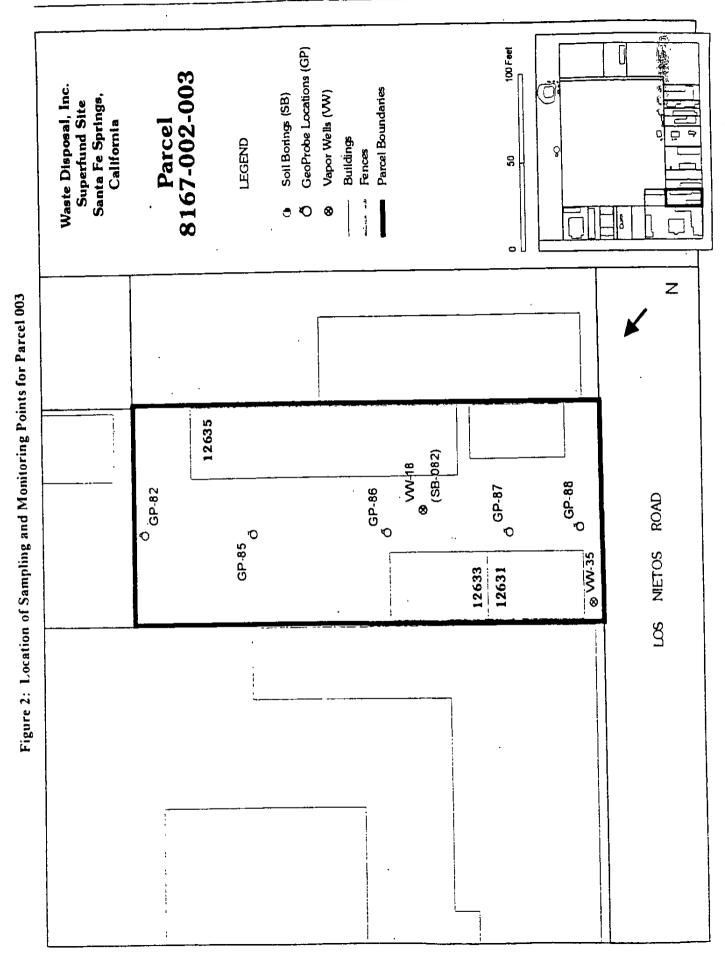
Assessor's Parcel Number 8167-002-0024:

Beginning at a point in the Southwesterly line of said Lot being the center line of Los Nietos Road (60 feet wide) which point is 300 feet Southeasterly from the point of intersection with the center line of Santa Fe Springs Whittier Road (40 feet wide), now known as Santa Fe Springs Road; thence North Easterly parallel with the Northwesterly line of said Lot, a distance of 330 feet to the most Northerly corner of the land described to Leslie M Holbrook, et al, by deed recorded on October 24, 1955 as Instrument No. 3705 in Book 49322, page 49 of Official Records of said county; and the true point of beginning for this description; thence continuing Northeasterly and parallel with said Northwesterly line of said Lot, a distance of 170 feet; thence Southwesterly parallel

with said Northwesterly line of said Lot, a distance of 170 feet to the most Easterly corner of said land of Leslie M. Holbrook, et al; thence Northwesterly along the Northeasterly line of said land of Leslie M. Holbrook, et al, a distance of 125 feet to the true point of beginning.

Subject to all conditions, covenants, liens, restrictions, reservations, rights, rights of way and easements of record.

Filed 09/13/2



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